Banner Installation Guidelines

Below are some guidelines to follow when finishing and installing banners. These tips and tricks will apply to wet-strength paper, fabric, vinyl, polyethylene and polypropylene films, and non-woven banner materials. Visit our website for product application guides and additional bulletins.

OVERPROTECT: A thin pressure sensitive adhesive over laminate can be used. One-sided applications can result in curl towards the laminated side and possibly contribute to adhesion failure. Compatible sprays or roll-ons can be used but may not provide uniform coverage. Pretest over-protection layer prior to use.

HEM EDGES: For durability, hem edges by either sewing or using banner tape. The right and left sides are hemmed first, then the top and bottom lengths. If using rope, it should be added into the top and bottom hemline at this time, before the hem is secured.

*Sewing: If unlamented, stitch hem side up to avoid scratching image with the sewing machine foot. For maximum reinforcement, use a double-stitched hem with a double lock stitch, with a maximum of 5 stitches per inch.

*Banner Tape: Apply standard high tack banner tape to the back of the banner. Fold edge over and press securely. Pretest banner tape prior to actual job.

INSTALL GROMMETS & REINFORCE CORNERS:

*Grommets: Place grommets every 2 feet apart in the hem line along the length of the banner so that the grommet penetrates 2 layers.

*Reinforce corners: To increase durability and strength, reinforcements can be made with small 2" to 3" patches of nylon or an additional cut piece of banner or adhesive grommet tab products, such as BANNER-UPS® Grommets should go through all corner layers.

CUT WIND SLITS: Some installers prefer wind slits on scrim banners over 10 feet. Cut 6" wind slits in the shape of a half moon - in the direction of the letter "U", approximately 2 feet apart across the center of the banner.

HANG: Corners can be secured using the installed rope or bungee cords. Apply equal tension on all 4 corners assuring the banner is taut but not tight. Too much tension can result in premature failure. The banner should not flap in the wind.

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MAGIC® PRODUCT APPLICATIONS GUIDE

BPC12UV

POLYCARBONATE BACKPRINT FILM

InteliCoat

Magic

Digital Imaging Substrates

MAGIC®BPC12UV is a clear backprint polycarbonate film that is designed to offer exceptional print performance on UV cure printing systems using flexible ink sets. By reverse imaging on the smooth surface, the polycarbonate surface protects the image while its texture naturally diffuses light and cuts glare. The stiffness of the polycarbonate base makes it easy to slide into display boxes or to make panels for rigid displays.

PHYSICAL PROPERTIES

Caliper . . . . .11 mil
% Opacity 12
Transmission 90
Gloss of Film Side (view side) (60°) 11
Optimum Printing Environment . . . . .70°F (30-70% RH)
Life Expectancy as Backlit . . . . .12 months

*Product life is dependent on strength of light source and distance from light source.

APPLICATION GUIDELINES

Imaging: The print side is the smooth side and is wound to the outside of the roll. Images need to be reversed printed on the smooth side.

Printer and Ink Compatibility: BPC12UV is designed to offer exceptional print performance on UV cure printing systems using flexible ink sets.

Waterfastness: This product is considered water resistant. Condensation in a light box could cause a small amount of ink bleed. Lamination with edge sealer is the best way to ensure complete waterfastness.

Material Handling & Storage: Lamination is the best way to protect the image from scratches and condensation. After use, the unused roll should be stored in its original packaging in the poly bag at 59-86°F /15-30°C and 30-70% RH.

INSTALLATION RECOMMENDATIONS

Lamination: Cold pressure-sensitive overlaminates are recommended. For additional lamination tips, download the film lamination technical bulletin.

Image protection: Print a mirror image of the graphic on the smooth side of the product and view from the film side. This protects the inks imaged on the surface in the light box, exposing the durable polycarbonate film surface to any outside elements.

Lighting: To optimize image appearance, the image should be back illuminated, as the transmitted light yields the desired ink densities. A frosted pexiglass / acrylic layer situated over the light box bulbs to avoid hot spots.

RECYCLE AND DISPOSAL

Disposal by recycling of ink jet media is the preferred method. Where recycle markets do not exist, disposal by landfill or an approved incinerator is acceptable. See the Magic Recycle Technical Bulletin @ www.magicinkjet.com.

PET

USA

28 GAYLORD STREET

SOUTH HADLEY MA 01075-2894

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For more information call 1-800-628-8604,
or visit our web site at www.magicinkjet.com
*The most updated version of this guide can be

03/01/12

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UV CURE
Magic® BPC12UV
11 Mil Polycarbonate Back Print Film
For UV cure printing using flexible ink sets

Making all Great Images Count

www.magicinkjet.com

MARKET APPLICATIONS

- High quality, rugged, indoor backlit signage
- Backlit retail displays
- Reflective signage

PRODUCT DESCRIPTION

- Clear, 11 nil polycarbonate, reverse-print film
- Smooth side is the ink receiver side
- Polished, low-glare surface on the viewing side

FEATURES & BENEFITS

- Reverse printing on smooth side for protected graphics
- High color gamut on viewing side
- 11 mil polycarbonate film for easiest installation and removal in light box frame
- Polished viewing surface for low-glare viewing when viewed under direct lighting
- Optimized opacity for maximum color without hot spots
- Designed to offer exceptional print performance on UV cure printing systems using flexible ink sets

GENERAL AVAILABILITY

BPC12 UV	Part #
36" x 30'	71040
36" x 300'	71041 3 Roll Bulk
50" x 300'	71042 3 Roll Bulk

Note: Core = 3"

Phone: 1-800-628-8604
Fax: 1-800-861-4128

Disclaimer: Information presented in this product sell sheet is intended to offer a useful reference in selecting media for your output. No media warranties are implied unless specifically mentioned. Printer and / or ink changes may affect results. The most current product information may be found at www.magicinkjet.com.

Date: 3/1/12

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MAGIC® PRODUCT APPLICATIONS GUIDE

BPC12UV

POLYCARBONATE BACKPRINT FILM

InteliCoat

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Digital Imaging Substrates

MAGIC®BPC12UV is a clear backprint polycarbonate film that is designed to offer exceptional print performance on UV cure printing systems using flexible ink sets. By reverse imaging on the smooth surface, the polycarbonate surface protects the image while its texture naturally diffuses light and cuts glare. The stiffness of the polycarbonate base makes it easy to slide into display boxes or to make panels for rigid displays.

PHYSICAL PROPERTIES

Caliper . . . . .11 mil

% Opacity 12

Transmission 90

Gloss of Film Side (view side) (60°) 11

Optimum Printing Environment . . . . .70°F (30-70% RH)

Life Expectancy as Backlit . . . . .12 months

*Product life is dependent on strength of light source and distance from light source.

APPLICATION GUIDELINES

Imaging: The print side is the smooth side and is wound to the outside of the roll. Images need to be reversed printed on the smooth side.

Printer and Ink Compatibility: BPC12UV is designed to offer exceptional print performance on UV cure printing systems using flexible ink sets.

Waterfastness: This product is considered water resistant. Condensation in a light box could cause a small amount of ink bleed. Lamination with edge sealer is the best way to ensure complete waterfastness.

Material Handling & Storage: Lamination is the best way to protect the image from scratches and condensation. After use, the unused roll should be stored in its original packaging in the poly bag at 59-86°F /15-30°C and 30-70% RH.

INSTALLATION RECOMMENDATIONS

Lamination: Cold pressure-sensitive overlaminates are recommended. For additional lamination tips, download the film lamination technical bulletin.

Image protection: Print a mirror image of the graphic on the smooth side of the product and view from the film side. This protects the inks imaged on the surface in the light box, exposing the durable polycarbonate film surface to any outside elements.

Lighting: To optimize image appearance, the image should be back illuminated, as the transmitted light yields the desired ink densities. A frosted pexiglass / acrylic layer situated over the light box bulbs to avoid hot spots.

RECYCLE AND DISPOSAL

Disposal by recycling of ink jet media is the preferred method. Where recycle markets do not exist, disposal by landfill or an approved incinerator is acceptable. See the Magic Recycle Technical Bulletin @ www.magicinkjet.com.

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BROAD VUE

PERFORATED WINDOW FILM – OUTSIDE MOUNT
for Solvent, Eco-Solvent and Latex Printers
Solvent Ink Jet Printing Systems

Magic® Broad Vue is a perforated PVC window film that is designed for outside mounted window graphics. The material has 60/40% hole perforations and is crafted to trick the inside observer's eyes into seeing only what's happening outside, while to the outside viewer the vivid advertisement appears to be a solid print even though the film only covers 50% of the window. It is ideal for producing window graphics, POP displays, and Banners for retail and commercial purposes.

PHYSICAL PROPERTIES

Film Caliper:	6.3 mil	Perforation Ration	60/40	Adhesive Type:	Removable Acrylic
Film Type:	PVC	Optimum Print RH:	20-80%	Recommended Shelf Life:	1 yr
Backing Type:	Paper	Optimum Print Temp.:	70°F (21°C)	Outdoor life Expectancy*	1 yr

*Based on manufactures testing

APPLICATIONS GUIDELINES

Printer & Ink Compatibility: Print to the white outside surface. Broad Vu is compatible with most solvent, eco-solvent and latex printers, including VuTek, Roland, Mimaki, Mutoh and HP.

Printer Settings: Use SBL-7 backlit profiles or select a generic backlit film or Window Perforated setting. Heater settings: 40c – 45c.

Material Handling: Take-up reels can be used. Always wind or handle Broad Vue so that the white image side is out. Never wind image side in. Do not remove the PE liner until time of install. If stacking graphics use a silicone sheet between layers. Store unused material in its original packaging.

FINISHING RECOMMENDATIONS

Surface Protection: Be certain that graphic is completely dry prior to finishing. Clear liquid laminates are compatible and provide excellent surface protection. Always pretest over sprays for compatibility prior to use.

Application: Apply to a clean, dry surface. Temperature of the application surface should be above 40 degrees. Peel and fold back approximately 1" of the liner. Align the graphic up to the application surface and tack down the top edge. Gently peel the remaining liner while using a smooth squeegee, roller or your hand to evenly apply the graphic. The graphic can be repositioned. Do not stretch.

06/14/13

BROAD VUE

6.3 mil 60/40 perforated window film
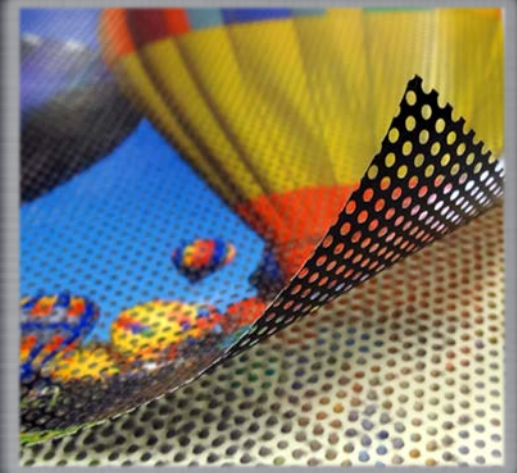
Indoor or outdoor

Retail, commercial window signage, POP displays

White PVC outer image side

Low tack black PVC backside with paper liner

Superior waterfastness

Removable, repositionable pressure sensitive adhesive

PN	SIZE	LIST
71684	27"X 10'	$16.00
72050	42"X100'	$248.79
71685	54"X100'	$319.87
71686	60"X100'	$355.40

COMPATIBILITY   E Eco Solvent   S Solvent   L Latex

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Magic®

PRESSURE-SENSITIVE VINYL
Magic® Broad Vue

Perforated Window Film (Outside Mount)

Making all Great Images Count

MARKET APPLICATIONS

- Indoor or outdoor perforated window film
- Retail & Commercial window signage
- POP displays.

PRODUCT DESCRIPTION

- 6.3 mil 60/40 perforated window film.
- White PVC outer image side.
- Low tack black PVC backside with paper liner.
- 6.3 mil 60/40 perforated window film.
- Removable, repositionable pressure sensitive adhesive.
- Compatible with solvent, eco-solvent and latex printers.

GENERAL AVAILABILITY

Broad Vu	Part #
54"X100'	71685
60"X100'	71686

Core = 3 inch

`

FEATURES & BENEFITS

- Designed for solvent, eco-solvent and latex printers.
- Superior waterfastness.
- Indoor or outdoor use.

MEDIA COMPATIBILITY

Magic Broad Vue is compatible with most solvent, eco-solvent and latex printing systems, including, Roland, Mimaki, VuTek, Mutoh and HP.

* For complete Magic® product compatibility refer to Magic Printer Compatibility Chart under Technical Support on www.magicinkjet.com.

* For additional product details – including printer settings– see Application Guide under Tech Support of www.magicinkjet.com

* For ICC profile availability, see www.magicinkjet.com

Phone: 1-800-628-8604
Fax: 1-800-861-4128

Disclaimer: Information presented in this product sell sheet is intended to offer a useful reference in selecting media for your output. No media warranties are implied unless specifically mentioned. Printer and / or ink changes may affect results. The most current product information may be found at www.magicinkjet.com.

Date: June 2013

CARTRIDGE RECYCLE FORM

COMPANY NAME

_____

YOUR DISTRIBUTORS NAME

_____

CARTRDIGE TYPE RETURNED
Epson GS6000 Only_____

CAR TRIDGE QUANTITY

_____

NOTES

_____
_____

DATE SENT_____

Please Ship this form with cartridges to   :

Ship minimum of 12 and a maximum of 25 cartridges per month to:
Coveris (foremerly Exopack) Returns Dept.
4915 Oxford Circle
Boca Raton, FL 33487

2. Ship via UPS using account number   - 3398A4

3. Once the cartridges are recei   ved and certified to be able to be refilled you will
receive $2.00 per cartridge to be used on your future ink purchases.

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InteliCoat

Choosing Sign and Banner Supplies for Eye-Catching POS Displays and Graphics

There are many different media choices available for the creation of POS displays and graphics, making the selection of sign and banner supplies seem like a challenge. Below is a brief overview of the various media options, including a detailed list of the corresponding InteliCoat products.

Regardless of what media you are looking for; consider universal choices that work across a variety of printing technologies. In shops where multiple printing technologies are used, universal products like the ones offered by InteliCoat can bring in one SKU that works across all platforms. This allows for reduced inventories and production flexibility.

Photobase Papers
Ideal for in-house graphics, proofing, POS graphics and photo reproduction, photobase papers are becoming an increasingly popular media option for POS displays and graphics because of their excellent image quality and photorealistic results. When choosing among photobase papers, look for options featuring 2-sided polyethylene sealed sheets (encapsulated), as well as archivability and instant dry times.

Magic Products
Siena 200 & 250 L & G

Solvent / Eco Solvent Photo Papers
A common media choice for the creation of in house and POS graphics, solvent and eco solvent photo papers are a cost effective option for high resolution, short-term applications. To ensure high photographic resolution, choose media options that feature an ultra smooth surface.

Magic Products
GFPHOTO
GFPHOTO 240
Total Photo M

Latex Saturated Papers
Latex saturated papers have become a cost-effective choice among sign and banner supplies. The added durability and high versatility of latex saturated papers make them the ideal choice for backlit graphics, wall murals, outdoor advertising and POS displays.

Magic Products
GFIOP 140/212

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Poster MAX 212

Photo Films
Photo films are an ideal, cost-effective alternative to white films. Although there are several options available for photo films, choices featuring water-resistance and instant dry time are great solutions for POS graphics, especially in the beverage industry.

Magic Products
Palermo SPF

Backlits
Polyester backlit films are becoming increasingly popular among users of solvent printers because of their ability to create high resolution, eye-catching displays. By investing in backlit films, sign makers gain the ability to produce lightbox graphics for retail and POP venues.

Magic Products
SBL-7
DMBL5

Clear Film
Featuring great black densities, clear films are becoming an increasingly popular option for a number of POS applications, including lightbox graphics, window graphics, color overlays and screen positives. When choosing among the wealth of options, look for clear films that provide water resistance for added protection in busy retail venues and POS locations.

Magic Products
DMCF4
Novara CF
SCF-7

Banners
There are many banner media options available for the production of retail and POP display stands and indoor/outdoor promotional banners. When choosing among the plethora of options, look for durable strength, universal banners. Additionally in today's eco-conscious world, consider recyclable media.

Magic Products
PPM7, PPM7 PSA
VSF
TB9
DMPB10 C2S

Block-out Films

Specifically designed for retractable banner stands, block-out films present a great choice among sign and banner supplies. Look for universal choices that feature an anti-curl layer for added stability and durability on the busy retail floor. Additionally block-out films with bright white printing surfaces enable added color pop.

Magic Products
POS PRO+ 200

Repositionable Products
Repositionable media choices fill a market niche for the creation of short-term promotional banners and graphics, as well as window graphics for a wide variety of venues. It's extremely important to choose repositionable options that print full bleed, won't shrink with heat and prevent edge curl.

Magic Products
STICK 2

For more information on sign and banner supplies from InteliCoat, call 1-800-628-8604 or email jchagnon@intelicoat.com. You may also view a clip from our POS Products and Applications webinar on the InteliCoatTech YouTube channel at http://youtu.be/HlCPUs9dAF8.

Digital Photo Paper Options for Photographers Looking to Increase Revenue

The adoption of inkjet technology for digital photo reproduction has resulted from the flexibility afforded by digital printing. There is a range of digital photo papers and fine art media available today in assorted weights, textures and finishes that can affect how the final image looks and feels. Choosing among them can be a confusing task.

The most popular digital photo paper choices available today include:

- **Matte and Art Papers** feature highly absorbent coatings, which draw ink into the base, providing great imaging. The surface finishes available are matte or a gloss/semi-gloss that mimics traditional fiber base silver halide prints.

- **Photorealistic Papers** are less expensive than true photobase papers. Their inkjet coatings result in photorealistic images. Unlike photobase paper, photorealistic papers are not a true polyethylene sheet as the polyethylene is only on one side. The result is less than the traditional feel of C-Prints.

- **True Photobase Papers** are more similar to traditional C-Prints. They are two-sided polyethylene sealed sheets that provide excellent image quality and more photorealistic looking images. In contrast to photorealistic and matte presentation papers, photobase papers support greater ink load and less paper cockle.

- **Fabrics and Canvases** provide options that aren't available to traditional silver halide photo printing. There are many different surface finishes; from matte to high gloss and smooth to highly textured. These bases are usually made from cotton or polyester or a blend of the two. Their inkjet coatings allow a rather large reservoir for ink and yield very high gamut imagery.

For more information on digital photo paper options from InteliCoat, call 1-800-628-8604 or visit http://www.magicinkjet.com. You may also view a clip from our Digital Photo Paper, Media and Applications webinar on the InteliCoatTech YouTube channel at http://www.youtube.com/watch?v=IzOc9plBVxM.

DISPLAY FILMS
Magic® DMBL5
6.5 Mil Satin Frontprint / Backlit Polyester Film

Making all Great Images Count

MARKET APPLICATIONS

- High quality indoor and outdoor durable backlit signage
- Backlit trade show displays & and retail displays
- Durable water resistant signage

PRODUCT DESCRIPTION

- 6.5 mil satin backlit film
- Image side is satin
- Image is positive-reading ,
- Backlit display
- Use pigment or dye inks aqueous inks

GENERAL AVAILABILITY

DMBL5	Part #
24" x 10'	70990
36" x 100'	70991
42" x 100'	70992
50" x 100'	70993
60" x 100'	70994

Core = 2 inch

FEATURES & BENEFITS

- Positive direct-print on the glossy surface
- High color gamut
- View as a backlit
- Aqueous pigment & dye ink compatibility
- Thermal and piezo printhead compatible.
- Best with photo black ink
- Exhibits water resistant attributes

MEDIA COMPATIBILITY

Designed to offer exceptional print performance on Hewlett-Packard DesignJet® series, Epson Stylus® Pro series with K3 inks, and Canon iPF series printers.

* For complete Magic® product set, refer to Magic Printer Compatibility Chart under Technical Support on www.magicinkjet.com.

* For additional product details – including printer settings and lamination guidelines – see Application Guide under Tech Support of www.magicinkjet.com

* For ICC profile availability, see www.magicinkjet.com

Phone: 1-800-628-8604
Fax: 1-800-861-4128

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Date: Sept, 2012

BLOCK-OUT PAPER

2-Side Printable BLOCK-OUT PAPER for UV Cure Printing Systems.

Magic® Block-Out Paper is an opaque 2-side printable paper designed for UV Cure printing systems for indoor banners, posters and window signs. This unique paper features an inner block out layer that contributes to the products rigidity and flat exhibits. It is lightweight, economical and earth friendly. Unlike most block media, BLOCK-OUT PAPER is recyclable, biodegradable and compostable.

PHYSICAL PROPERTIES

Caliper:	8.5 mil	Type:	Paper	Recommended Shelf Life:	1 yr
Basis Wt.:		Optimum Print RH:	20-80%	Outdoor life Expectancy*	N/A
60 deg Gloss:	16	Optimum Print Temp.:	70°F (21°C)	Indoor Life Expectancy*	
Whiteness:	105				
Opacity:				*Based on manufactures testing	

APPLICATIONS GUIDELINES

Printer & Ink Compatibility: BLOCK-OUT Paper is two-side printable. It is compatible with most UV Cure printing systems, such as Mimaki

Printer Settings: Use SBL-7 backlit profiles or select a generic backlit film or Window Perforated setting. Heater settings: 40c – 45c.

Waterfastness:

Material Handling: Take-up reels can be used. Store unused material in its original packaging.

FINISHING

Image Protection: Overlaminates will protect the image from physical damage. Cold pressure laminates should be used, a UV stable laminate is recommended. Allow image to dry completely prior to handling and laminating.

RECYCLING AND DISPOSAL

Disposal by recycling of ink jet media is the preferred method. Where recycle markets do not exist, disposal by landfill or an approved incinerator is acceptable. See Magic Recycle Bulletin @ www.magicinkjet.com

11/26/12

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DMBP5
UNIVERSAL INK JET BACKPRINT POLYESTER FILM

MAGIC® DMBP5 is a 5 mil backprint polyester film which can be used in Hewlett-Packard DesignJet® and other water-based piezo wide format printers. By reverse imaging on the matte surface, the polyester film surface protects the ink jet image. DMPBP5 is ideal for durable display signage.

PHYSICAL PROPERTIES

Caliper of Coated Product	5.8 mi / 145 microns
Gloss of Print Side (60°)	47
Gloss of Film Side (60°)	102
Optimum Printing Environment	70°F / 21°C (30-70% RH)
Fire Certificate	In compliance with Germany B1 fire regulations testing

APPLICATIONS GUIDELINES

Imaging: The print needs to be reverse (mirror) imaged and viewed from the gloss side. The print side is the matte side, and it is wound to the outside of the roll.

Printer Settings: To optimize print quality, printers should be set for highest print quality. To minimize bleed, the recommended maximum ink saturation level is 225% on the HP2000 and 3000 series printers. The media selection is "Backlit"for the HP2000/3000 and "Photo Imaging Gloss" for HP5000 series printers. For Epson's use "Commercial Proofing, 1440x 750"setting. "Super" and "bi-directional" are the printer settings for water based piezo wide format printers.

Printer and Ink Compatibility: DMBP5 may be printed with most dye-based inks, including HP, Epson, Canon, etc. Limited pigment ink capability is exhibited on DMBP5. Using water-based pigments will usually yield good print quality, but expect lower transmitted and reflective ink densities than most dye-based inks. Inks NOT recommended for use are Encad GX, Ilford Archiva, and ColorSpan EnduraChrome inks, because premature fading may occur.

Waterfastness: Dye-based inks have a moderate level of water resistance. Condensation in a light box can cause small amounts of ink bleed. Lamination with encapsulation is the best way to ensure complete waterfastness.

Light Stability: For dye ink applications, it is important to overlaminate the image side to prevent image fading. For complete protection, both sides of the film should be laminated with UV stable laminates. DMBP5 should be installed with the laminate side facing out.

FINISHING RECOMMENDATIONS

Image Protection: Print a mirror image of the graphic on the matte side of the product and view from the gloss side. This protects the inks in the light box, exposing the durable polyester film surface to any outside elements.

Lighting: To optimize image appearance, the image should be back illuminated, as the transmitted light yields the desired ink densities. Viewing with reflected light yields only slightly lower ink saturation with transmitted light.
Lamination: Cold pressure-sensitive overlaminates are recommended. Heat-activated laminates are NOT recommended unless the image is encapsulated with a 1/8" safe edge around the entire edge. For additional tips, visit www.magicinkjet.com.

RECYCLING AND DISPOSAL

Disposal by recycling of ink jet media is the preferred method. Where recycle markets do not exist, disposal by landfill or an approved incinerator is acceptable. See Magic Recycle Bulletin @ www.magicinkjet.com

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IMAGING 866 971-1008

DISPLAY FILMS
Magic® DMBP5

5.8 Mil Polyester Backprint Film

Making all Great Images Count

MARKET APPLICATIONS

- High quality, promotional indoor backlit signage
- Backlit trade show displays
- Backlit retail displays

PRODUCT DESCRIPTION

- 5.8 mil, reverse-print film
- Light diffusion layer (matte) is the ink jet receiver
- Gloss polyester on viewing side of graphic
- Designed for dye inks; limited pigment compatibility

GENERAL AVAILABILITY

DMBP5	Part #
36" x 100'	29987
42" x100'	29989
50" x 100'	29990
54" x 100'	29991
60" x 100'	29992

FEATURES & BENEFITS

- Reveres printing on matte side protects image on gloss side
- High color gamut on viewing side
- Image looks great with lights on or off
- 5.8 mil for easy installation and removal in light box frame
- Polyester film base for uniform, low-grain background
- Optimized opacity for maximum color without hot spots
- Limited pigment compatibility

MEDIA COMPATIBILITY

Designed to offer exceptional print performance with dye inks in printers such as Hewlett-Packard DesignJet® series, Encad, and ColorSpan.

* For complete Magic® product set, refer to Magic Printer Compatibility Chart under Technical Support on www.magicinkjet.com.

* For additional product details – including printer settings and lamination guidelines – see Application Guide under Tech Support of www.magicinkjet.com

* For ICC profile availability, see www.magicinkjet.com

Phone: 1-800-628-8604
Fax: 1-800-861-4128

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Date: March 2012

DMBPC12
POLYCARBONATE BACKPRINT FILM

InteliCoat

Magic

Digital Imaging Substrates

MAGIC®DMBPC12 is a backprint polycarbonate film which may be used in the Canon iPF series, Hewlett-Packard DesignJet®, Epson, ColorSpan® and other water-based thermal and piezo printers. By reverse imaging on the matte suface, the polycarbonate surface protects the image while its texture naturally diffuses light and cuts glare. The stiffness of the polycarbonate base makes it easy to slide into display boxes or to make panels for rigid displays.

PHYSICAL PROPERTIES

Caliper . . . . .11.5 mil

% Opacity . . . . .58 (+/-5)

Gloss of Film Side (view side) (60°) 11

Whiteness (on white background) 54

Optimum Printing Environment .70°F (30-70% RH)

Life Expectancy as Backlit (dye) . . . . .3 months

Flammability Rating (ASTM E84). . . . . Class A

*Product life is dependent on strength of light source and distance from light source.

APPLICATION GUIDELINES

Imaging: The print side is the matte side and is wound to the outside of the roll. Images need to be reversed printed on the matte side.

Printer and Ink Compatibility: The material can be printed with most water-based thermal and piezo printers equipped with dye or pigment inks. Using water-based pigments will usually yield good print quality, but expect lower transmitted and reflective ink densities than with most dye-based inks. Premature fading may occur when using dye "archival" type inks.

Printer Loading: When loading DMBPC12, disable the printer cutter mechanism. Most printers cutters are not sharp enough to cut through the 12 mil film.

Printer Settings: To optimize print quality, printers should be set for highest print quality. The maximum ink saturation level for NovaJet and ColorSpan printers is 350%. The max ink level is 225% on the HP 2000 and 3000 series printers. The media selection for the HP2000 / HP3000 printers is "Backlit" and "Photo Imaging Gloss for HP 5000 series printers when using dye-based inks. "Backlit UV" setting can be used with the HP5000 UV and HPZ series printers. "Super and "bi-direction" are the printer settings for water-based piezo wide format printers.

Waterfastness: Pigment inks have excellent water resistance when used in conjunction with DMBPC12. Dye-based inks have a moderate level of water resistance. Condensation in a light box can cause small amounts of ink bleed. Lamination with edge sealer is the best way to ensure complete waterfastness.

Light Stability: Pigment inks will offer greater light stability. For applications where dye inks are used, it is important to overlaminate the imaged side shortly after imaging to prevent image fading.

Material Handling: Be sure print is completely dry prior to handling. Lamination is the best way to protect the image from scratches, ink fade, etc.

INSTALLATION RECOMMENDATIONS

Mounting: It is recommended not to use the DMBPC12 with a white backer. If opacity is needed, use the Magic POS PRO+ products.

Lamination: Cold pressure-sensitive overlaminates are recommended. For additional lamination tips, download the film lamination technical bulletin.

Image protection: Print a mirror image of the graphic on the matte side of the product and view from the film side. This protects the inks imaged on the surface in the light box, exposing the durable polycarbonate film surface to any outside elements.

Lighting: To optimize image appearance, the image should be back illuminated, as the transmitted light yields the desired ink densities. Viewing with reflected light yields slightly lower ink saturation than transmitted light.

RECYCLE AND DISPOSAL

Disposal by recycling of ink jet media is the preferred method. Where recycle markets do not exist, disposal by landfill or an approved incinerator is acceptable. See the Magic Recycle Technical Bulletin @ www.magicinkjet.com.

PET

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*The most updated version of this guide can be o

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DISPLAY FILMS
Magic® DMBPC12

12 Mil Polycarbonate Back Print Film

Making all Great Images Count

www.magicinkjet.com

MARKET APPLICATIONS

- High quality, rugged, indoor backlit signage
- Backlit retail displays
- Reflective signage

PRODUCT DESCRIPTION

- 12 nil polycarbonate, reverse-print film
- Light diffusion layer (matte side) is the ink jet receiver layer
- Polished, low-glare surface on the viewing side

GENERAL AVAILABILITY

DMBPC12	Part #
24" x 10'	70358
36" x 60'	29627
42" x 60'	29628
50" x 60'	29629

Core = 2"

FEATURES & BENEFITS

- Reverse printing on matte side for protected graphics
- High color gamut on viewing side
- 12 mil polycarbonate film for easiest installation and removal in light box frame
- Polished viewing surface for low-glare viewing when viewed under direct lighting
- Optimized opacity for maximum color without hot spots

MEDIA COMPATIBILITY

Compatible with aqueous dye ink printers. Using aqueous pigment ink will usually yield good print quality, but transmitted and reflective ink densities may be lower.

* For complete Magic® product set, refer to Magic Printer Compatibility Chart under Technical Support on www.magicinkjet.com.

* For additional product details – including printer settings and installation guidelines – see Application Guide under Tech Support of www.magicinkjet.com

* For ICC profile availability, see www.magicinkjet.com

Phone:	1-800-628-8604
Fax:	1-800-861-4128

Disclaimer: Information presented in this product sellsheet is intended to offer a useful reference in selecting media for your output. No media warranties are implied unless specifically mentioned. Printer and / or ink changes may affect results. The most current product information may be found at www.magicinkjet.com.

Date: March 2010

InteliCoat Technologies®

MAGIC® PRODUCT APPLICATIONS GUIDE

DMBPC12
POLYCARBONATE BACKPRINT FILM

InteliCoat

Magic
Digital Imaging Substrates

MAGIC®DMBPC12 is a backprint polycarbonate film which may be used in the Canon iPF series, Hewlett-Packard DesignJet®, Epson, ColorSpan® and other water-based thermal and piezo printers. By reverse imaging on the matte suface, the polycarbonate surface protects the image while its texture naturally diffuses light and cuts glare. The stiffness of the polycarbonate base makes it easy to slide into display boxes or to make panels for rigid displays.

PHYSICAL PROPERTIES

Caliper . . . . .11.5 mil

% Opacity . . . . .58 (+/-5)

Gloss of Film Side (view side) (60°) 11

Whiteness (on white background) 54

Optimum Printing Environment .70°F (30-70% RH)

Life Expectancy as Backlit (dye) . . . . .3 months

Flammability Rating (ASTM E84). . . . . Class A

*Product life is dependent on strength of light source and distance from light source.

APPLICATION GUIDELINES

Imaging: The print side is the matte side and is wound to the outside of the roll. Images need to be reversed printed on the matte side.

Printer and Ink Compatibility: The material can be printed with most water-based thermal and piezo printers equipped with dye or pigment inks. Using water-based pigments will usually yield good print quality, but expect lower transmitted and reflective ink densities than with most dye-based inks. Premature fading may occur when using dye "archival" type inks.

Printer Loading: When loading DMBPC12, disable the printer cutter mechanism. Most printers cutters are not sharp enough to cut through the 12 mil film.

Printer Settings: To optimize print quality, printers should be set for highest print quality. The maximum ink saturation level for NovaJet and ColorSpan printers is 350%. The max ink level is 225% on the HP 2000 and 3000 series printers. The media selection for the HP2000 / HP3000 printers is "Backlit" and "Photo Imaging Gloss for HP 5000 series printers when using dye-based inks. "Backlit UV" setting can be used with the HP5000 UV and HPZ series printers. "Super and "bi-direction" are the printer settings for water-based piezo wide format printers.

Waterfastness: Pigment inks have excellent water resistance when used in conjunction with DMBPC12. Dye-based inks have a moderate level of water resistance. Condensation in a light box can cause small amounts of ink bleed. Lamination with edge sealer is the best way to ensure complete waterfastness.

Light Stability: Pigment inks will offer greater light stability. For applications where dye inks are used, it is important to overlaminate the imaged side shortly after imaging to prevent image fading.

Material Handling: Be sure print is completely dry prior to handling. Lamination is the best way to protect the image from scratches, ink fade, etc.

INSTALLATION RECOMMENDATIONS

Mounting: It is recommended not to use the DMBPC12 with a white backer. If opacity is needed, use the Magic POS PRO+ products.

Lamination: Cold pressure-sensitive overlaminates are recommended. For additional lamination tips, download the film lamination technical bulletin.

Image protection: Print a mirror image of the graphic on the matte side of the product and view from the film side. This protects the inks imaged on the surface in the light box, exposing the durable polycarbonate film surface to any outside elements.

Lighting: To optimize image appearance, the image should be back illuminated, as the transmitted light yields the desired ink densities. Viewing with reflected light yields slightly lower ink saturation than transmitted light.

RECYCLE AND DISPOSAL

Disposal by recycling of ink jet media is the preferred method. Where recycle markets do not exist, disposal by landfill or an approved incinerator is acceptable. See the Magic Recycle Technical Bulletin @ www.magicinkjet.com.

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DISPLAY FILMS
Magic® DMCF4HPS (with stripe)
Magic® DMCF4HP (with interleaf, no stripe)
Magic® DMCF4EN (without strip or interleaf)
4 Mil Clear Polyester Film

Making all Great Images Count

MARKET APPLICATIONS

- Clear, color graphic overlays
- Color separations for screen printing
- Durable window signage
- Economical trade show graphics when used with rigid vinyl backer
- Highest quality photorealistic indoor signage
- Photo reproduction
- Front and backlit retail displays

PRODUCT DESCRIPTION

- 4 mil, glossy, clear polyester film
- Accepts most dye-based and pigment OEM inks
- Durable, tear-resistant
- With stripes or interleaf or neither to suit various printers' clear film detection mechanism.

GENERAL AVAILABILITY

DMCF4HPS	Part #
36" x 75'	45956
42' x 75''	45958

DMCF4HP	Part #
36" x 75'	32824

DMCF4EN	Part #
36" x 100'	66273

FEATURES & BENEFITS

- Polyester film for smoothest base uniformity and highest image resolution
- Optically clear for maximum see-through
- Universal dye and pigment compatibility
- *WITH STRIPE* is designed specifically for Hewlett-Packard printers that require edge media sensing
- *WITHOUT STRIPE* is an interleafed product available only in 36" width for those systems that require an interleaf for media sensing – or for end-users who prefer interleaf

MEDIA COMPATIBILITY

Compatible with most Hewlett-Packard and dye/pigment water-based printers. Pigment inks are recommended for longer-lasting images.

* For complete Magic® product set, refer to Magic Printer Compatibility Chart under Technical Support on www.magicinkjet.com.

* For additional product details – including printer settings and lamination guidelines – see Application Guide under Tech Support of www.magicinkjet.com

* For ICC profile availability, see www.magicinkjet.com

Phone: 1-800-628-8604
Fax: 1-800-861-4128

Disclaimer: Information presented in this product sell sheet is intended to offer a useful reference in selecting media for your output. No media warranties are implied unless specifically mentioned. Printer and / or ink changes may affect results. The most current product information may be found at www.magicinkjet.com.

Date: March 1, 2012

MARKET APPLICATIONS

- Clear, color graphic overlays
- Color separations for screen printing
- Durable window signage
- Highest quality photorealistic indoor signage
- Front and backlit retail displays

PRODUCT DESCRIPTION

- 4 mil, glossy, clear polyester film for Encad series printers
- Accepts most dye-based and pigment inks
- Durable, tear-resistant

GENERAL AVAILABILITY

DMCF4EN	Part #
36" x 100'	66273

FEATURES & BENEFITS

- Polyester film for smoothest base uniformity and highest image resolution
- Optically clear for maximum see-through
- Universal dye and pigment compatibility

MEDIA COMPATIBILITY

Compatible with Encad series printers. Pigment inks are recommended for longer-lasting images. Follow guidelines on Magic Application Guide to image clear film.

* For complete Magic® product set, refer to Magic Printer Compatibility Chart under Technical Support on www.magicinkjet.com.

* For additional product details – including printer settings and lamination guidelines – see Application Guide under Tech Support of www.magicinkjet.com

* For ICC profile availability, see www.magicinkjet.com

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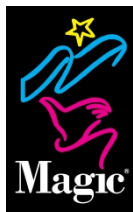
Date: December 2010

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MAGIC® PRODUCT APPLICATIONS GUIDE
DMCF4HPS & DMCF4HP & DMCF4EN
CLEAR POLYESTER FILM

MAGIC® DMCF4(HP/HP/EN) is a optically clear polyester film that accepts most water-based dye- and pigment inks. DMCF4HPS features removable edge stripes specifically for Hewlett-Packard & Canon IPF printers that require edge media sensing. DMCF4HP, an interleaf product, is available in 36" width for those printer systems that require an interleaf for media sensing or for those end users who prefer inter-leaf. DMCF4EN has no edge stripe or interleaf, for those printers that detect clear film. DMCF4 is ideal for full color

PHYSICAL PROPERTIES

Total Caliper . . . . .4.0 mil . . . 102 micron
Haze 2.2
% Opacity 8.0
Optimum Printing Environment . . . . .70°F / 21°C (30-70% RH)
Recommended Ink Coverage . . . . .300% maximum
Indoor Product Life Expectancy . . . . .2 years (up to1 year as window graphic with UV inks)

PRINTING GUIDELINES

Printing: Print side is wound to the outside of the roll. Due to printer tolerance variability, overlays may not hold 100% accurate.

Printer & Ink Compatibility: DMCF4HPS can be used on Hewlett-Packard DesignJet HP5000 & HPZ series as well as some Epsons and Canon IPF printers. Epson® 7800, 9800,10000, HP2000/3000 series and Roland® printers will not detect the DMCF4HPS; therefore, DMCFHP film with an interleaf should be used (36" width only available). DMCF4EN is compatible with Encad/Kodak, Colorspan®, and most water-based piezo and thermal printers. When using HP2000/3000 printers, shut off the printhead service and color calibration options under the Image Quality option on the front printer panel. Printhead errors will occur due to the opacity differences of the clear film and edge stripe. Colorspan users will have to perform the following in order to use the film: (1) load the film with a photobase media and calibrate (2) tape over the sensor (3) unload photobase and load clear film. Film is compatible with most aqueous dye-based and pigment inks. Ink dry time will be affected by ink saturation level and humidity. Allow prints to dry completely prior to handling.

Printer Settings: To optimize print quality, printers should be set for highest print quality. Media selection should be "Film" mode in 1000/2000/3000 HP DesignJet printers, and "PhotoImaging Gloss" mode in HP DesignJet 5000.

Color Calibration: ICC Color Calibration profiles can be obtained on our website. Profiles can be downloaded for a selected

APPLICATIONS RECOMMENDATIONS

Lamination: If added surface protection is desired, it is recommended that a non-thermal pressure-sensitive overlaminate be used. Allow film to dry completely prior to handling. Lamination is essential for waterfastness.

Window Graphics: DMCF4HPS is ideal for window graphics due to the pigment ink compatibility. Pigmented inks will provide an image less subject to light fade than dye-based inks. A clear double-sided adhesive can be applied to the film when used for window graphics.

Surface Durability: Pigment inks will provide some degree of waterfastness; however, inks can be rubbed off if image is wet. DMCF4HPS is not a waterfast product.

RECYCLING AND DISPOSAL

Disposal by recycling of ink jet media is the preferred method. Where recycle markets do no exist, disposal by landfill or an approved incinerator is acceptable. See the Magic Recycle Technical Bulletin @ www.magicinkjet.com.

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Magiclée

DMiBOP10 / Mural-Pro™
REINFORCED WET STRENGTH
FOR WALLCOVERING, BANNERS AND POSTERS

DMIBOP10 / Mural-Pro™ is a latex-based ink jet media designed wall covering for residential, hospitality, commercial, and retail design, as well as for indoor promotional banners. DMiBOP10 /Mural-Pro is an economical alternative to adhesive vinyl for in-store environmental graphics. The universal coating provides a wide range of printer compatibility across aqueous, solvent, eco solvent, latex & UV cure ink jet systems. DMiBOP10/ Mural-Pro meets the ASTM 793 standards for commercial wall covering and is ideal for interior design, art reproduction, and restoration applications. DMiBOP10 is rated class A in fire testing, ASTM E84.

PHYSICAL PROPERTIES

Basis Weight	228 g/m2 (6.7 oz/yd2)	Optimum Print RH:	20-60%	Tensile Strength (MD/CD):	52/33 lbs/in
Caliper:	11.3 mils (283 microns)	Optimum Print Temp.:	70°F (21°C)	Elongation (MD/CD):	30/60%
% Opacity:	97%	Flame Spread		Tear Strength (MD/CD):	115/110
Whiteness:	104	Classification:	Class A**	Wet Expansion:	3%
Brightness:	97	**Based on ASTM E84	Test method	Indoor Life Expectancy*	1 year+

APPLICATIONS GUIDELINES

Application: This product is designed for banners, murals, custom decor, maps, and posters

Printer & Ink Compatibility: DMIBOP/Mural-Pro can be printed with HP® Designjet, Epson Stylus, and Canon iPF, and water-based Piezo systems equipped with pigment inks. DMIBOP/Mural-Pro may be used in most solvent, eco solvent, HP Latex & UV Cure print systems.

Printer Guidelines: To optimize print quality, printers should be set for highest print quality. Printer settings for the HP® Designjet series is Heavy Coated Paper. Select paper or banner-type print setting on water-based piezo. Optimized printer settings will vary from printer manufacturer. For solvent printing, start with 60°C for pre-heat and 50°C for post heat. Check the magicinkjet.com website for available ICC color profiles. Due to the heavy gauge of the material, this product can feed through the printers at different rates causing print size to vary slightly from print to print. Images sized in a software application may be printed slightly smaller then anticipated.

Water Resistance and Surface Protection: To obtain a high degree of water resistance, use aqueous pigment or solvent inks. Lamination is recommended, as dirt and stains cannot be cleaned from the ink jet surface. Excessive folding or creasing of the media may cause damage. Ink coverage of up to 250% is recommended, because higher ink saturation can affect the water fast properties and show ink bleed in heavy saturation areas. To avoid perforating the laminate, use banner tape to put a hem on banners. Let the image dry up to 24 hrs before exposing to moisture.

WALLCOVERING INSTALLATION GUIDELINES

Detailed installation information for digital wall covering can be found on the Wall covering Technical Bulletin.
Wall Preparation: Walls should be prepped to a smooth, clean, and dry surface prior to installation. Mural-Pro will not hide wall flaws. Primer sealer should be used on unpainted drywall. Prime over glossy painted walls.

Paste Information: Use clear adhesives such as: Professional Ultra Premium Heavy Duty Clear Strippable (PRO-880), Golden Harvest GH-34 Clear Strippable, and Allpro Pro-Duty 3400. Clay adhesives have also shown to be effective (PRO-732, PRO-774, Golden Harvest GH-40, Allpro Extra Strength Vinyl 600 & 661). For more permanent wall coverings, use Professional heavy Duty Clear PRO-838 or Allpro Clear Hang 610. Apply a coat of the desired adhesive using a 1/2" nap paint roller and book for 10 minutes prior to hanging.

Hanging: Do not use tape on the imaged surface. Align the top and adjoining edges. Smooth panels into place using a smoothing brush, starting at the center of the panel working toward the edges. Push out any air pockets using the smoother brush.

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Laminating: Pressure-sensitive laminates are not recommended. Liquid laminates can be used but always pretest the laminate prior to use for compatibility. Allow the images to dry for 24 hrs.

MAGIC® APPLICATIONS GUIDE cont'd

DMiBOP1010 / Mural-Pro™
REINFORCED WET STRENGTH
FOR WALLCOVERING, BANNERS AND POSTERS

FINISHING RECOMMENDATIONS

Recommended Application Surfaces: Stainless steel, aluminum, glass, ABS, polycarbonate, Plexiglas®, automobile enamel and standard mounting boards like Sintra®, Gatorfoam® and Foam-Core®. The product is designed for use on smooth, flat surfaces and should not be applied over corrugations or rivets. Textured surfaces and wood tend to promote poor adhesion. Always pretest your specific substrate prior to actual application.

Surface Preparation: Always ensure that the receiving substrate is thoroughly cleaned, free of dust, dirt or cleaner residues. Painted surfaces should be painted with latex paint containing no waxes or silicones. Metal and glass surfaces can be cleaned with standard glass cleaners. Poor surface conditions will cause adhesion loss or failure.

Application Paper (Premask): Use low tack application tapes. High tack tapes can cause slight coating removal. Application paper applied directly onto the imaged surface of the vinyl may cause slight yellowing of the coating. The premask by American Biltrite Inc. called TransferRite®, causes the least amount of yellowing. 3M tapes have been found to increase the yellowing effect.

Installation Techniques: Proper contact of the adhesive to mounting substrate is critical and maximum pressure should be used to install the vinyl. If insufficient pressure is used during the install, the edges of the vinyl can lift. When applying vinyl to mounting boards, it is recommended that a cold roll laminator be used to give adequate, even pressure during application. For installations by hand, use application tape and squeegee with adequate pressure. Use of water during application is not recommended with this product. If water is used caution should be taken to use minimally. All water must be squeegeed out from under vinyl. If liquid soap is added to the water to increase the ease of installation, use only one drop per gallon of water. Soap must not contain moisturizer. Do not use heat guns to install vinyl. Material should not be stretched during installation. It is a calendered vinyl, and it will shrink back to original size, which might cause edges to lift or create gaps between panels.

Laminating: To give surface protection from dirt and abrasion, a vinyl pressure-sensitive over-laminate is recommended. Heat activated laminates should not be used. The high temperatures needed to apply heat activated laminates can de-grade the adhesive peel strength. Over-lamination on one side with too much tension can cause the product to curl toward the laminated side and the edges to lift. Let image dry for 24 hours before laminating.

Removal: The adhesive is very aggressive and removal may cause damage to indoor painted surfaces or drywall surface. To increase the ease of removal, gently heat the vinyl with a heat gun to soften the vinyl and adhesive. The longer DMVLA5 is applied, the more difficult the removal will be. Different surfaces will have different adhesion characteristics. Glass and stainless steel usually promote extremely high adhesion values and removal may be more difficult than with other surfaces. If during the removal, adhesive transfer happens, soapy warm water and aggressive rubbing with a cloth should remove adhesive. For surfaces with more difficult adhesive removal, isopropyl alcohol (a.k.a.- IPA or rubbing alcohol) can be used.

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BANNERS / WALLCOVERING
Magiclée® DMiBOP10 / MURAL-PRO™
Reinforced Wet-Strength Wallcovering, Banners and Posters.
For Posters for Aqueous, Solvent/Eco, Latex and UV Cure Systems

Making all Great Images Count

www.magicinkjet.com

MARKET APPLICATIONS

- Indoor or Short-Term Outdoor Ink Jet Banner
- Murals, Custom Decorative Wallcovering, Environmental Graphics – interior design & restoration, art reproductions
- Wall murals for Retail Stores, Hospitality, Restaurants & Hotels
- Maps
- POP Displays

PRODUCT DESCRIPTION

- Latex / Nylon-reinforced, wet-strength paper, 11.3 mil
- 97% Opacity
- Aqueous, solvent, eco solvent, latex, UV cure inks recommended
- Durable, high tear strength
- Meets ASTM 793 standards for commercial wallcovering

GENERAL AVAILABILITY

DMiBOP10 / Mural-Pro	Part #
24" x 10'	70362
36" x 75'	15150
36" x 125'	37385
42" x 75'	29077
50" x 75'	15151
50" x 125'	37386
50" x 200'	70892
54" x 75'	48993
54" x 125'	64357

Core = 3" core with a 2" adapter

FEATURES & BENEFITS

- Economical alternative for short-term, indoor promotional signage where high tear strength is desired.
- May be installed with the same pastes and methods as commercial wallcovering.
- Low wet expansion – panels can be double-cut for perfectly butted joints.
- Excellent water resistance in conjunction with pigmented inks

MEDIA COMPATIBILITY

May be used on most aqueous ink jet systems equipped with pigmented inks.
In addition, DMiBOP10 / Mural-Pro may be used in most solvent, eco-solvent, latex and UV Cure printing systems .

* For complete Magic® product set, refer to Magic Printer Compatibility Chart under Technical Support on www.magicinkjet.com.
* For additional product details – including printer settings and lamination guidelines – see Application Guide under Tech Support of www.magicinkjet.com
* For ICC profile availability, see www.magicinkjet.com

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Fax: 1-800-861-4128

Disclaimer: Information presented in this product sell sheet is intended to offer a useful reference in selecting media for your output. No media warranties are implied unless specifically mentioned. Printer and / or ink changes may affect results. The most current product information may be found at www.magicinkjet.com.

Date: August 2012

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DMPB10-C2S

TWO-SIDE IMAGEABLE POLYETHYLENE BANNER

InteliCoat

Magic

Digital Imaging Substrates

MAGIC®DMPB10-C2S is a 12 mil polyethylene banner film, with a universal coating on both sides, that allow both sides to be imaged and viewed from either side. This two-sided, block out banner offers a lower cost than printing on an one-sided banner and stitching it back-to-back. DMPB10-C2S features a non-glare smooth surface, quick dry times, and superior imaging performance in water-based thermal and piezo printers using dye and pigment inks.

PHYSICAL PROPERTIES

Caliper:	12 mil (308) microns)	Gloss (60˚):	2.2
% Opacity:	99%	Optimum Print RH:	30-60%
Whiteness:	109	Optimum Print Temp.:	70˚F (21˚C)
Brightness:	92		

APPLICATIONS GUIDELINES

Outdoor and Indoor Banner: This product is recommended for indoor and outdoor banner applications.

Printer & Ink Compatibility: DMPB10-C2S may be printed on Hewlett-Packard DesignJet® Encad NovaJet®/Kodak, ColorSpan® Displaymaker, Canon iPF series, Epson Stylus, and other water-based piezo & thermal printers. It is recommended to use pigment inks for longer-lasting images. Although dye-based inks provide a higher color gamut, premature fading can occur.

Water Resistance & Surface Protection: To obtain a high degree of water resistance, use only pigment ink. Dye-based inks will yield good color gamut, but bleeding may occur when the image gets wet. Overlaminating dye-based ink will not eliminate image bleed, unless the material is completely sealed to a non-porous surface or encapsulated. To avoid perforating the laminate, use banner tape to put a hem on the banner (see Tape Hem section below). Let the image dry 24 hours before exposing to moisture. Dirt and stains cannot be cleaned from the imaged surface and the surface can be damaged from excessive folding or creasing, so overlaminating is recommended to help protect it.

Printing Guidelines: To optimize print quality, printers should be set for highest print quality. Recommended media selection should be "HEAVY COATED PAPER". Images sized in a software application may be printed slightly smaller than anticipated. See page 2 of this guide for two-side printing guideline.

Material Handling & Storage: Once the print is completed, roll imaged media onto a core until ready for use. Folding of the material is not recommended. After use, the material should be stored in its original packaging in the poly bag suspended on the end boards. The material should be stored a 72˚ F (+/-5˚) for no more then 1 year.

FINISHING RECOMMENDATIONS

Tape & Stitched Hem: Standard high-tack banner tape can be used and is preferred to sewing, as the sewing process can scratch or cause coating pick-off. Follow the guidelines of the tape manufacturer. If sewing, it is recommended that the unlaminated banners be stitched hem side up so that the sewing machine foot comes in contact with only the backside of the banner. For maximum reinforcement, a double-stitched hem with a double lock stitch with a maximum of five stitches per inch and corner reinforcements are recommended.

Grommeting: Grommets should be placed in the hemline along the length of the banner so that the grommet is through two layers. Corner grommets should be placed where the length and width hems cross, so that the grommet is through four layers. A reinforced corner is also recommended to increase durability.

Laminating: A vinyl pressure-sensitive overlaminate or an acrylic liquid overcoat may be used. However, overlaminating one side may cause the product to curl toward the laminated side. Let image dry 24 hours before laminating.

RECYCLING AND DISPOSAL

♲ 4 LDPE Disposal by recycling of ink jet media is the preferred method. Where recycle markets do not exist, disposal by landfill or an approved incinerator is acceptable. See the Magic Technical Bulletin @ www.magicinkjet.com

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For more information, call1-800-628-8604, or visit our website: www.magicinkjet.com
*Most updated version of this guide can be obtained on

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Digital Imaging Substrates

DMPB10-C2S

TWO-SIDE IMAGEABLE POLYETHYLENE BANNER

TWO-SIDED PRINTING GUIDELINES

For two-sided printing on Epson 7800 & 9800, refer to the Magic Technical Bulletin " Two-sided Printing on Epson 7800 & 9800" on the www.Magicinkjet.com web site.

The following instructions are tailored for the HP5000 DesignJet series.

1. Prepare artwork:
* The graphics to be printed must have two separate ripped or prepared versions.
* One version should have no rotation (or 0˚ rotation).
* The second version should be flipped vertically (or 180˚ rotation).
Note: With no rotation, most programs print head first or upside-down when viewing from the front of the printer.

2. Prepare printer for side one printing:
* Turn automatic cutter off.
* Load 2-sided banner roll media onto the printer.
* Select media setting.
* If printhead calibration occurs, allow printer to calibrate. Cut off calibration patches by overriding the automatic cutter.
* Advance media a minimum of 12 inches.
* Mark on printer or make note of the exact point of the lead edge. You align the lead on side two with this reference mark.

3. Print side one of the graphic:
* Print the graphic with the 0˚ or no rotation.
* Once the graphic is printed, and before cutting, measure the distance between the lead edge of media and the start of the printed graphic.
* Take that measurement (a min. of 12 inches) and advance the media to the distance plus a little extra.
* Make note of the orientation of the graphic; this will be exactly how you feed side two. Whatever part of the graphic printed last will feed into the printer first for side two.
* Now cut off the printed graphic and unload the unimaged roll,
* Do not shut off or change media settings between prints.

4. Prepare graphic for side two printing:
* Now take your measurement, and trim the tail end of side one exactly to the distance. The cut must be perpendicular to edges of the media. Using cutting machine if possible.
* You now have a one-sided graphic with an unimaged leader that exactly matches the unimaged tail.

5. Load printer for side two imaging:
* Take graphic to printer and orient exactly as noted earlier; typically with the printed side facing you and up-side down.
* Load graphic into printer.
* If printer asks for roll or sheet, select roll.
* After the printer accepts load, select the same media setting you did for side one printing.
* Using a media move option, either forward or reverse media's lead edge to mark noted earlier from side one.

6. Print side two of graphic:
*Because of the lead edge mark, you now have a lead edge on side two that matches side one. Having never flipped your print horizontally, we have the same right-hand edge for both sides. Also you have enough media on the trailer so the printer does not run out of media.
* Now print the second ripped file that is 180˚ flipped vertically from side one.
* Once printed, advance the rest of the banner out.
* You will now have a finished two-sided banner with an alignment of +/-0.37 5".

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For more information, call 1-800-628-8604,
or visit our website: www.magicinkjet.com
*Most updated version of this guide can be obtained on

03/8/12

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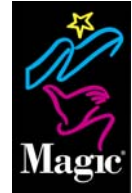www.bciimage.com

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BANNERS
Magic® DMPB10-C2S

Polyethylene, 2-Side Imageable

Making all Great Images Count

MARKET APPLICATIONS

- Indoor / Outdoor Promotional Banners
- Trade Show Graphics
- Retail Aisle Banners
- Promotions

PRODUCT DESCRIPTION

- 12 mil polyethylene, medium strength banner
- Universal matte coating, both sides
- 100% opacity
- Half the media cost of sewing one-sided banners back to back.

GENERAL AVAILABILITY

DMPB10-C2S	Part #
24" x 10'	70363
24" x 75'	70828
36" x 75'	45785
42" x 75'	46035
50" x 75'	46036

Universal 3" core w/ 2" adapter

FEATURES & BENEFITS

- Indoor or short-term outdoor use
- Imageable on both sides
- Ideal for free-hanging banners; hangs straight and flat.
- Changes in humidity or temperature will not cause curling
- Cost-effective alternative to stitching one-sided banners back to back
- Excellent drapability

MEDIA COMPATIBILITY

May be used on Hewlett-Packard DesignJet® series, Epson Stylus® series, and Canon iPF printers, and most piezo water-based systems equipped with pigment inks

* For complete Magic® product set, refer to Magic Printer Compatibility Chart under Technical Support on www.magicinkjet.com.

* For additional product details – including printer settings and lamination guidelines – see Application Guide under Tech Support of www.magicinkjet.com.

* For a guide to printing two-sided banners, refer to the technical bulletin: 2-sided printing instructions on the web site.

Phone: 1-800-628-8604
Fax: 1-800-861-4128

Disclaimer: Information presented in this product sellsheet is intended to offer a useful reference in selecting media for your output. No media warranties are implied unless specifically mentioned. Printer and / or ink changes may affect results. The most current product information may be found at www.magicinkjet.com.

Date: March 2012

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MAGIC® PRODUCT APPLICATIONS GUIDE

DMPB10-C2S

TWO-SIDE IMAGEABLE POLYETHYLENE BANNER

InteliCoat

Magic

Digital Imaging Substrates

MAGIC® DMPB10-C2S is a 12 mil polyethylene banner film, with a universal coating on both sides, that allow both sides to be imaged and viewed from either side. This two-sided, block out banner offers a lower cost than printing on an one-sided banner and stitching it back-to-back. DMPB10-C2S features a non-glare smooth surface, quick dry times, and superior imaging performance in water-based thermal and piezo printers using dye and pigment inks.

PHYSICAL PROPERTIES

Caliper:	12 mil (308) microns	Gloss (60°):	2.2
% Opacity:	99%	Optimum Print RH:	30-60%
Whiteness:	109	Optimum Print Temp.:	70°F (21°C)
Brightness:	92		

APPLICATIONS GUIDELINES

Outdoor and Indoor Banner: This product is recommended for indoor and outdoor banner applications.

Printer & Ink Compatibility: DMPB10-C2S may be printed on Hewlett-Packard DesignJet® Encad NovaJet®/Kodak, ColorSpan® Displaymaker, Canon iPF series, Epson Stylus, and other water-based piezo & thermal printers. It is recommended to use pigment inks for longer-lasting images. Although dye-based inks provide a higher color gamut, premature fading can occur.

Water Resistance & Surface Protection: To obtain a high degree of water resistance, use only pigment ink. Dye-based inks will yield good color gamut, but bleeding may occur when the image gets wet. Overlaminating dye-based ink will not eliminate image bleed, unless the material is completely sealed to a non-porous surface or encapsulated. To avoid perforating the laminate, use banner tape to put a hem on the banner (see Tape Hem section below). Let the image dry 24 hours before exposing to moisture. Dirt and stains cannot be cleaned from the imaged surface and the surface can be damaged from excessive folding or creasing, so overlaminating is recommended to help protect it.

Printing Guidelines: To optimize print quality, printers should be set for highest print quality. Recommended media selection should be "HEAVY COATED PAPER". Images sized in a software application may be printed slightly smaller than anticipated. See page 2 of this guide for two-side printing guideline.

Material Handling & Storage: Once the print is completed, roll imaged media onto a core until ready for use. Folding of the material is not recommended. After use, the material should be stored in its original packaging in the poly bag suspended on the end boards. The material should be stored a 72°F (+/-5°) for no more then 1 year.

FINISHING RECOMMENDATIONS

Tape & Stitched Hem: Standard high-tack banner tape can be used and is preferred to sewing, as the sewing process can scratch or cause coating pick-off. Follow the guidelines of the tape manufacturer. If sewing, it is recommended that the unlaminated banners be stitched hem side up so that the sewing machine foot comes in contact with only the backside of the banner. For maximum reinforcement, a double-stitched hem with a double lock stitch with a maximum of five stitches per inch and corner reinforcements are recommended.

Grommeting: Grommets should be placed in the hemline along the length of the banner so that the grommet is through two layers. Corner grommets should be placed where the length and width hems cross, so that the grommet is through four layers. A reinforced corner is also recommended to increase durability.

Laminating: A vinyl pressure-sensitive overlaminate or an acrylic liquid overcoat may be used. However, overlaminating one side may cause the product to curl toward the laminated side. Let image dry 24 hours before laminating.

RECYCLING AND DISPOSAL

Disposal by recycling of ink jet media is the preferred method. Where recycle markets do not exist, disposal by landfill or an approved incinerator is acceptable. See the Magic Technical Bulletin @ www.magicinkjet.com

4 LDPE

See page 2 of this guide for two-sided printing guidelines.

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DMPB10-C2S

TWO-SIDE IMAGEABLE POLYETHYLENE BANNER

TWO-SIDED PRINTING GUIDELINES

For two-sided printing on Epson 7800 & 9800, refer to the Magic Technical Bulletin " Two-sided Printing on Epson 7800 & 9800" on the www.Magicinkjet.com web site.

The following instructions are tailored for the HP5000 DesignJet series.

1. Prepare artwork:
* The graphics to be printed must have two separate ripped or prepared versions.
* One version should have no rotation (or 0˚ rotation).
* The second version should be flipped vertically (or 180˚rotation).
Note: With no rotation, most programs print head first or upside-down when viewing from the front of the printer.

2. Prepare printer for side one printing:
* Turn automatic cutter off.
* Load 2-sided banner roll media onto the printer.
* Select media setting.
* If printhead calibration occurs, allow printer to calibrate. Cut off calibration patches by overriding the automatic cutter.
* Advance media a minimum of 12 inches.
* Mark on printer or make note of the exact point of the lead edge. You align the lead on side two with this reference mark.

3. Print side one of the graphic:
* Print the graphic with the 0˚or no rotation.
* Once the graphic is printed, and before cutting, measure the distance between the lead edge of media and the start of the printed graphic.
* Take that measurement (a min. of 12 inches) and advance the media to the distance plus a little extra.
* Make note of the orientation of the graphic; this will be exactly how you feed side two. Whatever part of the graphic printed last will feed into the printer first for side two.
* Now cut off the printed graphic and unload the unimaged roll,
* Do not shut off or change media settings between prints.

4. Prepare graphic for side two printing:
* Now take your measurement, and trim the tail end of side one exactly to the distance. The cut must be perpendicular to edges of the media. Using cutting machine if possible.
* You now have a one-sided graphic with an unimaged leader that exactly matches the unimaged tail.

5. Load printer for side two imaging:
* Take graphic to printer and orient exactly as noted earlier; typically with the printed side facing you and up-side down.
* Load graphic into printer.
* If printer asks for roll or sheet, select roll.
* After the printer accepts load, select the same media setting you did for side one printing.
* Using a media move option, either forward or reverse media's lead edge to mark noted earlier from side one.

6. Print side two of graphic:
*Because of the lead edge mark, you now have a lead edge on side two that matches side one. Having never flipped your print horizontally, we have the same right-hand edge for both sides. Also you have enough media on the trailer so the printer does not run out of media.
* Now print the second ripped file that is 180˚ flipped vertically from side one.
* Once printed, advance the rest of the banner out.
* You will now have a finished two-sided banner with an alignment of +/-0.375".

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MATTE PRESENTATION PAPERS
Magic® DMPG98
98 gsm Matte Ink Jet Paper

Making all Great Images Count

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MARKET APPLICATIONS

- General Purpose Signage
- Posters
- POP Displays
- Trade Show Graphics

FEATURES & BENEFITS

- Matte surface for no-glare viewing
- Impressive performance-to-cost value for graphic arts and prepress applications.
- Economical for most budgets and applications
- High opacity and optimal color gamut

PRODUCT DESCRIPTION

- 98 gsm, 26# paper
- Matte surface; high opacity
- 91 Bright white
- Compatible with dye and pigment waterbased inks

MEDIA COMPATIBILITY

* Compatible printers include HP DesignJet®, Encad, ColorSpan, Canon, Epson, and other piezo, and thermal water-based systems. Compatible with pigment and dye inks, with pigment inks offering greater resistance to fade.

* For complete Magic® product set, refer to Magic Printer Compatibility Chart under Technical Support on www.magicinkjet.com.

* For additional product details – including printer settings and lamination guidelines – see Application Guide under Tech Support of www.magicinkjet.com

* For ICC profile availability, see www.magicinkjet.com

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Disclaimer: Information presented in this product sellsheet is intended to offer a useful reference in selecting media for your output. No media warranties are implied unless specifically mentioned. Printer and / or ink changes may affect results. The most current product information may be found at www.magicinkjet.com.

Date: August 2012

GENERAL AVAILABILITY

DMPG98	Part #
24" x 10'	70364
24" x 150'	61490
36" x 150'	61363
36" x 300'	61492
42" x 150'	61483
42" x 300'	61499
44" x150'	61489
44" x 300'	61488
54" x150'	61440
60" x 300	46394
Core =2"	

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UNIVERSALPRESSURE-SENSITIVE PHOTOBASE
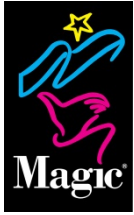
DMPHA7 & DMPLA7 are respectively, high gloss and low glare photobase papers coated with a permanent pressure sensitive adhesive (PSA) with a 1 mil clear polyester liner for water-based dye ink printers. The PSA coating allows for easy application to mounting materials. The material can be printed on all Canon W series, Encad/Kodak ® ColorSpan® and Hewlett-Packard DesignJet® wide format dye ink printers. The polyethylene resin coated surface prevents paper cockle and yields photorealistic images. The high gloss surface of the DMPHA7 and the low glare surface of the DMPLA7 provide for optimum viewing in any lighting environment.

PHYSICAL PROPERTIES

	DMPHA7 High Gloss	DMPLA7 Low Glare
Gloss (60⁰)	72	35
% Opacity	91	91
Whiteness	105	105
Caliper of photobase	6.5 mil	6.5 mil
Caliper of Adhesive	0.8 mil (+/- 0.1 mil)	0.8 mil (+/-0.1 mil)
Caliper of Film Liner	1 mil	1 mil
Adhesive Type	Permanent Solvent-Based	Permanent Solvent-Based
Adhesive Peel Force on Stainless Steel	1.75 lb/in.	1.75 lb/in.
Optimum Printing Environment	70⁰F (30-70%RH)	70⁰F (30-70%RH)
Recommended Dye Printing Devices	Encad / Kodak , ColorSpan HP DesignJet, Canon W series	Encad / Kodak, ColorSpan HP DesignJet, Canon W series .

APPLICATION GUIDELINES

Indoor Use: This product is recommended for indoor applications only. Apply at minimum air and surface temperatures of 50⁰F.

Surface Protection: Dirt and stains can not be cleaned from the imaged surface and the product can be damaged from excessive folding or creasing. Laminating is recommended to protect the surface.

Printing: Material may be printed on most dye ink wide format printers. Ink coverage of up to 300% is recommended. To optimize print quality, printers should be set for highest print quality and media selection should be "Photopaper".

Material Handling & Storage: Once print is completed, it is recommended to lay material flat until ready for posting. Folding of the material in not recommended. Unimaged material should be stored at 72° F (+/-5°) for no longer than 1 year, to obtain maximum adhesion values. After use, the roll should be stored in its original packaging.

FINISHING RECOMMENDATIONS

Surface Preparation: Always ensure that the receiving surface is thoroughly cleaned, free of dust, dirt or cleaner residues. Painted metal, glass and standard graphic art mounting boards surfaces should be cleaned with standard glass cleaner or isopropyl alcohol (IPA). Poor surface conditions will cause adhesion loss or failure.

Recommended Application Surfaces: Stainless steel, glass, acrylic, ABS, polycarbonate, Plexiglas®, Foam Core® and Sintra®. The product is designed for use on smooth, flat indoor surfaces. Textured surfaces and wood tend to promote poor adhesion. Always pretest your specific substrate prior to actual application.

Installation Techniques: For best results, it is recommended that a laminator be used to mount material to mounting boards, and for permanent structures a professional installer should be used. Material is not repositionable during or after install. The use of water to aid in the adhesive installation is not recommended. Water will damage the print surface.

Laminating: To give added surface protection from dirt and abrasion, a thin pressure-sensitive overlaminate is recommended. Heat activated laminates should not be used because the heat can degrade the adhesive peel strength. Overlaminating one side may cause the product to curl towards the laminated side and the edges to lift.

Removal: Removal will require physical scraping or use of solvents as this is a paper-based product with a strong solvent-based permanent adhesive. Application of this product to dry wall is not recommended due to the potential difficulties in removal.

PHOTOBASE PAPERS WITH PSA
Magic® DMPHA7 & DMPLA7

High-Gloss Resin-Coated Photobase Paper with PSA
Low-Glare Resin-Coated Photobase Paper with PSA

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MARKET APPLICATIONS

- Photo Reproduction
- Signage
- Posters
- POP displays

PRODUCT DESCRIPTION

DMPHA7
- 7 mil, resin-coated photobase paper, glossy surface
- Bright white, dye ink compatible
- Permanent adhesive backing
- 1 mil clear polyester film liner

DMPLA7
- 7 mil, resin-coated photobase paper, luster surface
- Bright white, dye ink compatible
- Permanent adhesive backing
- 1 mil clear polyester film liner

GENERAL AVAILABILITY

DMPHA7	Part #	DMPLA7	Part#
36" x 50'	30102	36" x 50'	37175`
42" x 50'	45868	42" x 50'	64143
54' x 50'	37174	50" x 50'	37176
60" x 50'	37173	54" x 50'	37177
60" x 100	67121	60" x 50'	37178
		60" x100'	67354

Core = 3" core with a 2" core adapter

FEATURES & BENEFITS

DMPHA7
- Pressure-sensitive adhesive makes for easy installation
- Dye ink compatibility
- High gloss surface

DMPLA7
- Pressure-sensitive adhesive makes for easy installation
- Dye ink compatibility
- Low Glare / luster surface

MEDIA COMPATIBILITY

Designed to offer exceptional print performance on Hewlett-Packard, Encad, and ColorSpan dye base thermal inkjet printers.

* For complete Magic® product set, refer to Magic Printer Compatibility Chart under Technical Support on www.magicinkjet.com.

* For additional product details – including printer settings and lamination guidelines – see Application Guide under Tech Support of www.magicinkjet.com

* For ICC profile availability, see www.magicinkjet.com

Phone: 1-800-628-8604
Fax: 1-800-861-4128

Disclaimer: Information presented in this product sellsheet is intended to offer a useful reference in selecting media for your output. No media warranties are implied unless specifically mentioned. Printer and / or ink changes may affect results. The most current product information may be found at www.magicinkjet.com.

Date: March 2012

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DMPS150
SEMI-GLOSS PHOTOREALISTIC PAPER

MAGIC® DMPS150 is an economical, low glare photorealistic paper for use on Hewlett-Packard DesignJet®, Canon ®' W series, and Epson waterbased piezo printers equipped with dye-based inks. The non-resin coated surface, combined with an ultra smooth ink jet coating provides a rich, smooth texture that yields photorealistic images. The low glare surface of the DMPS150 provides for optimum viewing in any lighting environment. DMPS150 is ideal for large quantity runs and easy lamination.

PHYSICAL PROPERTIES

Caliper	5.4 mil . . .135 microns
Opacity	99 %
Gloss of Print Side (60°)	47%
Basis Wt.	166 g/m$_2$ . . . 4.9 oz/yd$_2$
Whiteness	115
Brightness	95
Optimum Printing Environment	70°F (30-70% RH)
Caliper	.5.4 mil . . .135 microns

APPLICATIONS GUIDELINES

Printer and Ink Compatibility: DMPS150 may be printed on almost all thermal ink jet printer systems equipped with dye-based inks. Compatible thermal systems include: Hewlett Packard DesignJet® 2000/3000/5000 series, Canon 8400D, and water-based piezo such as Epson Stylus® 9000/10000 printer systems.

Printer Settings: Use "Semi-Gloss Photo" mode on DesignJet 2000/3000 series. "Photo Imaging Gloss" mode on HP Design-Jet 5000 series. The recommended maximum ink saturation level is 300%. High humidity environments will result in slower dry times and increased paper cockle due to moisture in the sheet. Allow image to completely dry before handling or laminating. Waiting 24 hours is optimum.

Color Calibration: ICC color profiles can be obtained for selected RIP, ink and printer combinations on the magicinkjet web page identified below. Profile solutions are continually being generated, so consult the web page for current availability. If profile is not available, you may submit your request on line.

Material Handling & Storage: To protect unused material, store material in its original packaging, in the poly bag at 72° F (+/-5).

FINISHING RECOMMENDATIONS

Lamination: DMPS150 may be overlaminated with most cold laminates and low temperature hot laminates, but cold are are preferred and give better adhesion results. Allow image to completely dry before handling or laminating Waiting 24 hours is optimum. When the paper is overlaminated with heavy gauge laminates and either mounted to a board or encapsulated, overlap the image with a 0.25 inch safe edge of laminate. This will seal the photorealistic paper, preventing moisture absorption and paper splitting. Use laminates of equal gauge when encapsulating to prevent image curl. Overlamination will also decrease the rate at which dye ink images fade. Lamination will also add protection against dust, abrasion, and finger prints. Use laminates of equal gauge when encapsulating to prevent image curl. Overlaminating one side may cause the product to curl towards the laminated side.

Mounting: Cold pressure-sensitive adhesives typically provide the most aggressive bonds and are recommended. It is always best to pre-test the adhesive with the back of photo papers. Photobase papers often contain anti-curl backside coating which may or may not result in a strong adhesive bond.

RECYCLING AND DISPOSAL

Disposal by recycling of ink jet media is the preferred method. Where recycle markets do not exist, disposal by landfill or an approved incinerator is acceptable. See Magic Recycle Bulletin @ www.magicinkjet.com

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PHOTOREALISTIC PAPERS
DMPS150

Semi-Gloss, Non-Resin-Coated Paper

Making all Great Images Count

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MARKET APPLICATIONS

- Photo Reproductions
- Economy Signage
- POP / Retail signage
- Displays

PRODUCT DESCRIPTION

- 5.4 mil, non-resin-coated photopaper
- Economical
- Semi-gloss surface
- Dye ink compatible

GENERAL AVAILABILITY

DMPS150	Part #
24" x 100'	61404
36" x 100'	61405
36" x 300'	61491
42" x 100'	61403
50" x 100'	61406
50" x 300'	61482

3" core w/ 2" adapter

FEATURES & BENEFITS

- No bubbling during lamination
- Universal dye ink compatibility
- Lightweight for easy mounting
- Aqueous pigment ink compatibility
- Lowest paper cockle in its class
- Recyclable

MEDIA COMPATIBILITY

Designed to offer exceptional print performance on Hewlett-Packard DesignJet® series, Canon® 8400D, Epson Stylus® 9000/10000 printers, and other water-based piezo printer systems.

* For complete Magic® product set, refer to Magic Printer Compatibility Chart under Technical Support on www.magicinkjet.com.

* For additional product details – including printer settings and lamination guidelines – see Application Guide under Tech Support of www.magicinkjet.com

* For ICC profile availability, see www.magicinkjet.com

Phone: 1-800-628-8604
Fax: 1-800-861-4128

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BANNERS
Magic® DMVB14

Economy Scrim Vinyl

Making all Great Images Count

MARKET APPLICATIONS

- Economy Indoor/Outdoor Promotional Banner
- Tradeshow Graphics
- Sporting Events
- Promotions

PRODUCT DESCRIPTION

- Economical, Single-sided Scrim Vinyl
- Caliper = 14.6 mil
- 99% Opacity

GENERAL AVAILABILITY

DMVB14	Part #
24" x 40'	46542
36" x 40'	46544
36" x 75'	46545
42" x 50'	46546
50" x 50'	46547
50" x75'	46548
60" x 50'	46550

Core = 3" core w/ 2" adapter

FEATURES & BENEFITS

- Compatible on a wide variety of thermal & piezo ink jet printing systems
- Superior draping properties; ideal for hanging signs.
- Lower plasticizer content – reduces ink bleed issues due to plasticizer migration.
- Same image quality as the DMVB15, with slightly less physical durability and flexibility, and slightly lower opacity

MEDIA COMPATIBILITY

May be used on Hewlett-Packard DesignJet® series, Epson Stylus® series, and Canon "W" and iPF series printers, and most piezo & theremal water-based systems equipped with pigment inks.

* For complete Magic® product set, refer to Magic Printer Compatibility Chart under Technical Support on www.magicinkjet.com.

* For additional product details – including printer settings and lamination guidelines – see Application Guide under Tech Support of www.magicinkjet.com

* For ICC profile availability, see www.magicinkjet.com

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Date: August 2012

DMVB14
SINGLE-SIDED SCRIM BANNER VINYL

MAGIC® DMVB14 is an economical, one-sided scrim banner vinyl for indoor or outdoor applications. DMVB14 provides the same image quality and waterfastness/lightfastness as our time-tested DMVB15, with only slightly less physical durability and flexibility. The low plasticizer content base construction of DMVB14 also reduces the chances of ink bleed issues that other scrim vinyls in the market can experience. The universal ink jet receptive coating is compatible on most thermal and piezo water-based printers as well as. Use DMVB14 when you want a durable outdoor scrim banner vinyl but do not need all of the features of a premium vinyl grade.

PHYSICAL PROPERTIES

Basis Weight	374 g/m2 (11 oz/yd2)	Optimum Print RH:	20-60%	Tensile Strength (MD/CD):	89/20 lbs/in
Caliper:	14.6 mils (372 microns)	Optimum Print Temp.:	70°F (21°C)	Elongation (MD/CD):	80/55%
% Opacity:	99%	Flame Spread		Recommended Shelf Life:	6 months
Whiteness:	109	Classification:	Class A**	Outdoor life Expectancy*:	8 months
Gloss (60°):	2.1	Minimum Exp. Temp:	10° F	Indoor Life Expectancy*	1 year+

*Based on manufacturer's accelerated age testing. Results may very based on usage.
**Based on ASTM E84 test method

APPLICATIONS GUIDELINES

Printer & Ink Compatibility: DMVB14 can be printed with Hewlett DesignJet®, Encad /Kodak®, ColorSpan® Displaymakers, Epson, Canon and most piezo or thermal water-based printers. It is recommended to use pigmented inks for longer-lasting images. Although dye-based inks provide a higher color gamut, premature fade can occur. Inks NOT recommended for use are Encad GX, Ilford®ArchivaTM and ColorSpan® EnduraChrome ink.

Printer Guidelines: When printing multiple prints, use material from the same lot. Color output can vary from lot to lot and the same lot can vary when there is prolonged time intervals between printing of the same image. When using this media, either run sheets or disable the cutting mechanism, as heavy materials can cause cutter and print head jams. To optimize print quality, printers should be set for highest print quality and media selection should be "HEAVY COATED." Due to the heavy gauge of the material, this product can feed through the printers at different rates causing print size to vary from print to print. Applications that require tiling or paneling are not recommended. Images sized in a software application may be printed slightly smaller then anticipated

Water Resistance and Surface Protection: To obtain a high degree of water resistance, use only pigment ink. Lamination is not required although lamination provides longer outdoor life and surface protection. Ink coverage of up to 250% is recommended, because higher ink saturation can affect the waterfast properties and show ink bleed in heavy saturation areas. Dye-based inks will yield good color gamut, but bleeding may occur when the image gets wet. Over laminating dye-based ink will not eliminate image bleed, unless the material is completely sealed to a non-porous surface or encapsulated. If water migrates under the laminate, at an exposed edge or along the perforations of a stitched hem, a water mark can form and dye-based inks can bleed. To avoid perforating the laminate, use banner tape to put a hem on the banner (see Tape Hem section below). Let the image dry 24 hours before exposing to moisture. Dirt and stains can not be cleaned from the imaged surface and the surface can be damaged from excessive folding or creasing, so overlaminating is recommended to help protect it.

Material Handling & Storage: Once the print is completed, roll imaged media onto a core until ready for posting. Folding of the material is not recommended. The material should be stored a 72o F (+/-5o) for no more then 6 months. After use, the material should be stored in its original packaging in the poly bag suspended on the end boards. Material should always be stored suspended and not laying flat on its side. Storing material unsuspended, for prolonged periods of time, can cause print defects.

WALLCOVERING INSTALLATION GUIDELINES

Banner Installation: Improper installation can cause premature banner failure. It is recommended that a professional installer be used. When using banners greater than 10', half moon wind slits should be used. The cold cracking threshold for DMVB14 is 10°F. DMVB14 should not be used in environments below 10°F.   See Banner Installation tech bulletin on our www.magicinkjet.com website.

Tape & Stitched hem: Single-sided scrim banner material will have exposed scrim fiber at the cut edges; therefore, finishing the edges with tape or stitch is recommended. Standard high-tack banner tape can be used and is preferred to sewing, as the sewing process can scratch or cause coating pick-off. Follow the guidelines of the tape manufacturer. If sewing, it is recommended that the unlaminated banners be stitched hem side up so that the sewing machine foot comes in contact with only the backside of the banner. For maximum reinforcement, a double-stitched hem with a double lock stitch, with a maximum of five stitches per inch and corner reinforcements are recommended.

Grommeting: Grommets should be placed in the hemline along the length of the banner so that the grommet is through two layers. Corner grommets should be placed where the length and width hems cross, so that the grommet is through four layers. A reinforced corner is also recommended to increase durability.

Laminating: A vinyl pressure-sensitive overlaminate or an acrylic liquid overcoat may be used. However, overlaminating one side may cause the product to curl toward the laminated side. Let image dry 24 hours before laminating.

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COMPETITIVE ADVANTAGES

Why buy DMVB14 Scrim?

Accelerated age testing was performed on DMVB14 to confirm the reduced %plasticizer level effect on image quality over time. Pictures are worth a thousand words! What scrim vinyl would you buy?
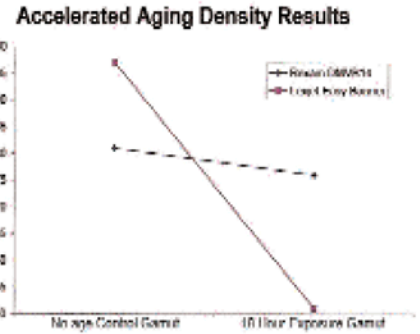
DMVB14 has less bleed hence less plasticizer

Competitor — color bleed

DMVB14 — color bleed
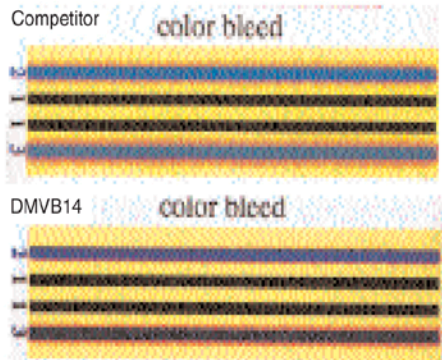
DMVB14's photograph quality stays consistent

Competitor   DMVB14

DMVB14 has minimal color density loss

Accelerated Aging Density Results

Physical Property	DMVB14	COMPETITOR'S LOW COST VINYL BANNER
Cailper (mils):	14.6	18.5
%Opacity:	99%	99%
Whiteness:	109	84
Coating Adhesion (810 tape):	0% removal	90-100% removal
Banner Feel:	Slightly textured	Heavily textured**
Plasticizer Level:	0.028 mg/in^2	0.056 mg/in^2
Odor:	Mild	Strong

**Texture becomes more evident in printed images especially in heavy ink saturated areas.

Print Performance (HP 5000 UV inks)

	DMVB14	Competitor
Color Gamut:	230K	213K
Ink Adhesion:	25% removal	100% removal
Dry time:	instant	instant
Waterfast:	Yes	Yes

Banner Finishing

	DMVB14	Competitor
Cutting:	Very slight fray	Moderate fray
PSA Laminate Adhesion:	Good	Poor
Tape Hem:	No issues	No issues
Sewing:	No issues	No issues
Grommeting:	No issues	No issues

The above data was created based on InteliCoat's internal testing using industry standards and state-of-the-art analytical and laboratory test equipment. Effort was made to ensure that the above information is fair, factual, and complete. The comparison presented here is InteliCoat's opinion.

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BANNERS
Magic® DMVB15

Premium Scrim Vinyl

Making all Great Images Count

MARKET APPLICATIONS

- Premium Indoor/Outdoor Promotional Banner
- Tradeshow Graphics
- Sporting Events
- Promotions

PRODUCT DESCRIPTION

- High Strength, Durable Scrim Vinyl, 15.5 mil
- Front and back PCV with a block-out layer for 100% opacity.

GENERAL AVAILABILITY

DMVB15	Part #
24" x 40'	28375
36" x 40'	15162
36" x 75'	37391
42" x 50'	29071
42" x 75'	48733
50" x 50'	15163
50" x75'	37392
60" x 50'	29072

Core = 3" with 2" adapter

FEATURES & BENEFITS

- Compatible on a wide variety of thermal & piezo ink jet printing systems
- Superior draping properties; ideal for hanging signs.
- Smooth, smooth surface – unlike most scrim banner

MEDIA COMPATIBILITY

May be used on Hewlett-Packard DesignJet® series, Epson Stylus® series, and Canon iPF 8000 printers, and most piezo water-based systems equipped with pigment inks.

* For complete Magic® product set, refer to Magic Printer Compatibility Chart under Technical Support on www.magicinkjet.com.

* For additional product details – including printer settings and lamination guidelines – see Application Guide under Tech Support of www.magicinkjet.com

* For ICC profile availability, see www.magicinkjet.com

Phone:	1-800-628-8604
Fax:	1-800-861-4128

Disclaimer: Information presented in this product sellsheet is intended to offer a useful reference in selecting media for your output. No media warranties are implied unless specifically mentioned. Printer and / or ink changes may affect results. The most current product information may be found at www.magicinkjet.com.

Date: August 17, 2012

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DMVB15
SCRIM VINYL INDOOR/OUTDOOR INK JET BANNER

MAGIC® DMVB15 is the premium short-term promotional banner material for indoor or outdoor applications. It is best for applications where strength and maximum base opacity is required because it has two PVC layers and a polyester scrim layer, which add to its sun-blocking power, durability and ability to drape well. DMVB15 is intended for use in all HP DesignJet®, Canon®, Epson®, and other water-based wide format printers.

PHYSICAL PROPERTIES

Basis Weight	524 g/m2 (15oz/yd2)	Optimum Print RH:	20-60%
Caliper:	15.5 mils (400microns) + or – 1 mil	Optimum Print Temp.:	70°F (21°C)
% Opacity:	100%	Recommended Shelf Life:	6 months
Whiteness:	108	Outdoor life Expectancy*:	1 year
Gloss (60°):	2.2	Indoor Life Expectancy*	1 year+

*Based on manufacturer's accelerated age testing. Results may vary based on usage.

APPLICATIONS GUIDELINES

Printer and Ink Compatibility: DMVB15 can be printed with HP DesignJet®, Epson Stylus®Pro series, Kodak/Encad NovaJet, ColorSpan® Displaymakers, Canon ® IPF series and most piezo & thermal printhead water-based pigment printers. It is recommended to use pigment inks for longer-lasting images. Although dye-based inks provide a higher color gamut, premature fade can occur. Inks NOT recommended for use are Encad GX, Ilford® ArchivaTM and ColorSpan®EnduraChrome ink, because premature fading is known to occur.

Water Resistance & Surface Protection: Mild water resistance is exhibited with the Canon IPF 5000,8000,9000 & HPZ series printers. However, when wet, if the product is handled, smudging will occur. Lamination is recommended for outdoor use. To obtain a high degree of water resistance, use only pigment ink. Ink coverage of up to 250% is recommended, because higher ink saturation can affect the water-fast properties and show ink bleed in heavy saturation areas. Dye-based inks will yield good color gamut, but bleeding may occur when the image gets wet. Over laminating dye-based ink will not eliminate image bleed, unless the material is completely sealed to a non-porous surface or encapsulated. If water migrates under the laminate at an exposed edge or along the perforations of a stitched hem, a watermark can form and dye-based inks can bleed.

To avoid perforating the laminate, use banner tape to put a hem on the banner (see Tape Hem section below). Let the image dry 24 hours before exposing to moisture. Dirt and stains cannot be cleaned from the imaged surface and the surface can be damaged from excessive folding or creasing, therefore over-laminating is recommended to help protect it.

Printing Guidelines: When printing multiple prints, use material from the same lot. Color output can vary from lot to lot and the same lot can vary when there is prolonged time intervals between printing of the same image. When using this media, either run sheets or disable the cutting mechanism, as heavy materials can cause cutter and print head jams. To optimize print quality, printers should be set for highest print quality and media selection should be "HEAVY COATED". Due to the heavy gauge of the material, this product can feed through the printers at different rates causing print size to vary from print to print. Applications that require tiling or paneling are not recommended. Images sized in a software application may be printed slightly smaller than anticipated

Material Handling & Storage: Once the print is completed, roll imaged media onto a core until ready for posting. Folding of the material is not recommended. The material should be stored a 72° F (+/-5o) for no more than 6 months. After use, the material should be stored in its original packaging in the poly bag suspended on the end boards. Material should always be stored suspended and not lying flat on its side. Storing material unsuspended, for prolonged periods of time, can cause print defects.

WALLCOVERING INSTALLATION GUIDELINES

Banner Installation: Improper installation can cause premature banner failure. It is recommended that a professional installer be used. When using banners greater than 10', half- moon wind slits should be used.

Tape & Stitched Hem: Standard high-tack banner tape can be used and is preferred to sewing, as the sewing process can scratch or cause coating pick-off. Follow the guidelines of the tape manufacturer. If sewing, it is recommended that the none laminated banners be stitched hem side up so that the sewing machine foot comes in contact with only the backside of the banner. For maximum reinforcement, a double-stitched hem with a double lock stitch, with a maximum of five stitches per inch and corner reinforcements are recommended.

Grommeting: Grommets should be placed in the hemline along the length of the banner so that the grommet is through two layers. Corner grommets should be placed where the length and width hems cross, so that the grommet is through four layers. A reinforced corner is also recommended to increase durability.

Laminating: A vinyl pressure-sensitive over laminate or an acrylic liquid overcoat may be used. However, over laminating one side may cause the product to curl toward the laminated side. Let image dry 24 hours before laminating.

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PRESSURE-SENSITIVE VINYL
Magic® DMVLA5

Matte Vinyl with Adhesive Backing

Making all Great Images Count

MARKET APPLICATIONS

- Indoor or Outdoor Posters
- Indoor or Outdoor Board-Mounted Signs
- POP Signage

PRODUCT DESCRIPTION

- White Opaque, Matte, Pressure-Sensitive, Ink Jet Calendared Vinyl
- 6 mil vinyl supported on a release liner
- *Permanent*, pressure-sensitive adhesive
- Compatible with pigment aqueous ink systems

GENERAL AVAILABILITY

DMVLA5	Part #
24" x 40'	69691
36" x 40'	67692
36" x 75'	44175
42" x 40'	16406
42" x 75'	70824
44" x 40'	44971
50" x 75'	44176
54" x 40'	17291
54" x 75'	70825
60" x40'	16407

Core = 3 inch w/ 2" adapter

FEATURES & BENEFITS

- Designed specifically for pigment inks for superior color gamut and dry time.
- Superior waterfastness with pigment inks.
- May be laminated with vinyl pressure-sensitive overlaminates, like Magic® PROTECT.
- Indoor or outdoor use

MEDIA COMPATIBILITY

DMVLA5 may be printed water based dye and pigment ink jet printers including: Hewlett-Packard's, Epson 's, and Canon's, etc.

* For complete Magic® product set, refer to Magic Printer Compatibility Chart under Technical Support on www.magicinkjet.com.

* For additional product details – including printer settings and lamination guidelines – see Application Guide under Tech Support of www.magicinkjet.com

* For ICC profile availability, see www.magicinkjet.com

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Disclaimer: Information presented in this product sellsheet is intended to offer a useful reference in selecting media for your output. No media warranties are implied unless specifically mentioned. Printer and / or ink changes may affect results. The most current product information may be found at www.magicinkjet.com.

Date: August 2012

MAGIC® APPLICATIONS GUIDE

DMVLA5
MATTE PRESSURE-SENSITIVE INK JET VINYL

DMVLA5 is a white opaque, matte, calendared vinyl with a permanent pressure-sensitive adhesive. Excellent for printing flexible, durable signs and banners, DMVLA5is intended for use in thermal and piezo water-based wide format printers.DMVLA5 offers a broad color gamut and superior waterfastness with pigment inks.

PHYSICAL PROPERTIES

Vinyl Type	Calendered	Optimum Print Temp	70°F (21°C)
Caliper of Vinyl/Adhesive	6 mil (155 um)	Adhesive	Permanent
Total Caliper	13.4 mil (342 um)	Outdoor Life Expectancy	6 months
Whiteness	106	Indoor Life Expectancy	9 months
Brightness	95		

APPLICATIONS GUIDELINES

Printer & Ink Compatibility: DMVLA5 can be printed with dye or pigment ink on Hewlett-Packard DesignJet®, Canon iPF series, Epson's and other thermal and piezo water-based pigment systems. It is recommended to use pigment inks for longer-lasting images. Although dye-based inks provide a higher color gamut, ink fade can occur.

Printer Settings: Ink coverage of up to 250% is recommended. Excessive ink saturation can affect the waterfast properties of the material as well as color uniformity. To optimize print quality, printers should be set for highest print quality. Use "Heavy Coated Paper" or similar print modes for most printers.

Color Calibration: ICC color profiles can be obtained for selected RIP, ink and printer combinations on our webpage given below. If the proper profile solution is not available, periodically check the web page for the current availability as new profiles are being developed on an ongoing basis.

Water Resistance and Surface Protection: To obtain a high degree of water resistance, use only pigment ink. Dye based inks will yield good color gamut, but with repeated exposure to water, bleeding may occur. Overlaminating dye-based ink will not eliminate image bleed, unless the material is completely sealed to a non-porous surface or encapsulated. If water migrates under the laminate, ink bleeding may occur. Let image dry 24 hours before exposing to moisture. Dirt and stains cannot be cleaned from the imaged surface. Excessive folding or creasing can damage the imaged surface. Laminating is recommended to protect the surface from dirt and abrasion.

Outdoor/Indoor Use: This product is recommended for indoor and outdoor applications. It must be applied at minimum air and surface temperatures of 50 degrees F.

Material Handling & Storage: Once print is completed, roll imaged media onto a core until ready for posting. Folding of the material is not recommended. Unimaged material should be stored at 72∘F (+/-5∘) for no more than 6 months, to obtain maximum adhesion values. After use, the roll should be stored in its original packaging in the poly bag.

Page 2 of 2

FINISHING RECOMMENDATIONS

Recommended Application Surfaces: Stainless steel, aluminum, glass, ABS, polycarbonate, Plexiglas®, automobile enamel and standard mounting boards like Sintra®, Gatorfoam® and Foam-Core®. The product is

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designed for use on smooth, flat surfaces and should not be applied over corrugations or rivets. Textured surfaces and wood tend to promote poor adhesion. Always pretest your specific substrate prior to actual application.

Surface Preparation: Always ensure that the receiving substrate is thoroughly cleaned, free of dust, dirt or cleaner residues. Painted surfaces should be painted with latex paint containing no waxes or silicones. Metal and glass surfaces can be cleaned with standard glass cleaners. Poor surface conditions will cause adhesion loss or failure.

Application Paper (Premask): Use low tack application tapes. High tack tapes can cause slight coating removal. Application paper applied directly onto the imaged surface of the vinyl may cause slight yellowing of the coating. The premask by American Biltrite Inc. called TransferRite®, cause the least amount of yellowing. 3M tapes have been found to increase the yellowing effect.

Installation Techniques: Proper contact of the adhesive to to mounting substrate is critical and maximum pressure should be used to install the vinyl. If insufficient pressure is used during the install, the edges of the vinyl can lift. When applying vinyl to mounting boards, it is recommended that a cold roll laminator be used to give adequate, even pressure during application. For installations by hand, use application tape and squeegee with adequate pressure. It is recommended that water not be used during the installation but if it is used, use minimal amounts. All water must be squeegeed out from under vinyl. If liquid soap is added to the water to increase the ease of installation, use only one drop per gallon of water. Soap must not contain moisturizer. Do not use heat guns to install vinyl. Material should not be stretched during installation. It is a calendared vinyl, and it will shrink back to original size, which might cause edges to lift or create gaps between panels.

Laminating: To give surface protection from dirt and abrasion, a vinyl pressure-sensitive overlaminate is recommended. Heat activated laminates should not be used. The high temperatures needed to apply heat activated laminates can degrade the adhesive peel strength. Overlaminating one side with too much tension can cause the product to curl toward the laminated side and the edges to lift. Let image dry for 24 hours before laminating.

Removal: The adhesive is very aggressive and removal may cause damage to indoor painted surfaces or drywall surface. To increase the ease of removal, gently heat the vinyl with a heat gun to soften the vinyl and adhesive. The longer DMVLA5 is applied, the more difficult the removal will be. Different surfaces will have different adhesion characteristics. Glass and stainless steel usually promote extremely high adhesion values and removal may be more difficult than with other surfaces. If during the removal, adhesive transfer happens, soapy warm water and aggressive rubbing with a cloth should remove adhesive. For surfaces with more difficult adhesive removal, isopropyl
alcohol (a.k.a.- IPA or rubbing alcohol) can be used.

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ECO BLOCK-2S

2-Side Printable BLOCK-OUT PAPER for UV Cure & Latex Printing Systems.

Magic® ECO BLOCK-2S is an opaque 2-side printable satin paper designed for UV Cure and Latex printing systems. This unique paper features an inner block out layer that allows for clean, double sided printing with no show through. ECO BLOCK-2S is ideal for P.O.S. Frame Displays, Subway/Transit Ad Cards, and 2 Side Window Signage. It is lightweight, economical and earth friendly. Unlike most block-out media, ECO BLOCK-2S is recyclable, biodegradable and compostable.

PHYSICAL PROPERTIES

Caliper:	8.5 mil	Type:	Paper
Basis Wt.:	219 gsm^2	Optimum Print RH:	30-80%
Finish:	Satin	Optimum Print Temp.:	70°F (21°C)
60° Gloss:	16	Recommended Shelf Life:	1 yr
Whiteness:	105	Outdoor life Expectancy*	N/A
Opacity:	99	Indoor Life Expectancy*	12 months

*Based on manufactures testing

APPLICATIONS GUIDELINES

Printer & Ink Compatibility: ECO BLOCK 2S paper is two-side printable. It is compatible with most UV Cure and Latex printing systems, such as Mimaki, Colorspan, Vutec, Nur and HP, etc.

HP Latex Settings: Use HP Durable Semi Gloss Film profile, Temps: 122 / 194F, 16 pass.

Waterfastness: ECO BLOCK 2S has some water resistance but paper, in general, is not waterfast.

Material Handling: Take-up reels can be used. Store unused material in its original packaging.

FINISHING

Image Protection: Overlaminates will protect the image from physical damage. Cold pressure laminates should be used. Allow image to dry completely prior to handling and laminating.

RECYCLING AND DISPOSAL

Disposal by recycling of ink jet media is the preferred method. Where recycle markets do not exist, disposal by landfill or an approved incinerator is acceptable. See Magic Recycle Bulletin @ www.magicinkjet.com. ECO BLOCK 2S is also biodegradable and compostable.

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ECO-SATIN

Economical Indoor 200 gsm Satin Paper for Promotional Signage

ECO-Satin is an 8.5 mil satin paper for solvent, eco solvent, latex and UV cure systems. ECO-Satin is a cost effective option for posters, back-lit and POS applications. This product is also recyclable.

PHYSICAL PROPERTIES

Caliper:	8.5 mil	Type:	Paper
Basis Wt.:	200 gsm$^{2/}$ 5.9 oz	Optimum Print RH:	30-80%
Finish:	Satin	Optimum Print Temp.:	70°F (21°C)
60° Gloss:	4.2	Recommended Shelf Life:	1 yr
Whiteness:	93	Outdoor life Expectancy:	Short term in enclosed displays
Opacity:	99	Indoor Life Expectancy:	*12 months

*Based on manufactures testing

APPLICATIONS GUIDELINES

Printer & Ink Compatibility: Eco-Satin is one-side printable. It is compatible with Solvent, Eco-Solvent, Latex and UV Cure printing systems, such as Mimaki, Epson, Colorspan, Vutec, Nur and HP, etc.

HP Latex Settings: Use HP Durable Semi Gloss Film profile, Temps: 122 / 194F, 16 pass.

Waterfastness: Eco Satin has some water resistance but paper, in general, is not waterfast.

Material Handling: Take-up reels can be used. Store unused material in its original packaging.

FINISHING

Image Protection: Overlaminates will protect the image from physical damage. Cold pressure laminates should be used. Allow image to dry completely prior to handling and laminating.

RECYCLING AND DISPOSAL

Disposal by recycling of ink jet media is the preferred method. Where recycle markets do not exist, disposal by landfill or an approved incinerator is acceptable. See Magic Recycle Bulletin @ www.magicinkjet.com.

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LATEX & UV CURE
Magic® ECO BLOCK-2S
2-Side Printable BLOCK-OUT PAPER
For Latex and UV Cure printing

Making all Great Images Count

MARKET APPLICATIONS

- Indoor 2-Sided Displays / Posters
- Window Signage
- P.O.S. Frame Displays
- Subway/Transit Ad Cards
- Banners

PRODUCT DESCRIPTION

- Satin, 8.5 mil , White Block Out Paper w/ Black Inner Layer.
- 2-Side Printable
- 219 gm^s
- Opacity: 99%
- Indoor Use
- Recyclable, Compostable, Biodegradable

GENERAL AVAILABILITY

ECO BLOCK-2S	Part #
60" x 20'	71894
60" x 300'	71895

Note: 3" core

FEATURES & BENEFITS

- 2-Side Printable Opaque Block Out Paper
- Eco Friendly: Recyclable, Compostable, Biodegradable.
- Economically priced.
- Designed to offer exceptional print performance on Latex and UV cure printing systems using flexible ink sets

MEDIA COMPATIBILITY

- Designed to offer exceptional print performance on Latex UV cure ink jet printers, such as HP, Vutek, Nur, Mimaki, etc.

* For complete Magic® product line, refer to Magic Printer Compatibility Chart under Technical Support on www.magicinkjet.com.

* For additional product details – including printer settings and lamination guidelines – see Application Guide under Tech Support of www.magicinkjet.com

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Fax: 1-800-861-4128

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Date: March 2013

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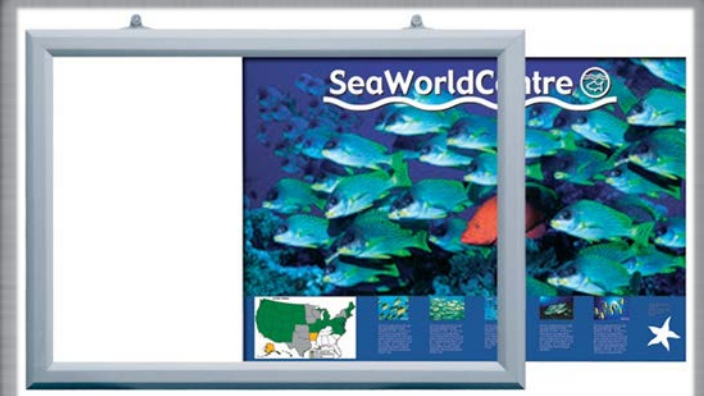
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ECO BLOCK-2S

8.5 mil, satin, 2-side printable opaque block out paper

Indoor 2 sided displays, posters, window signage, POS frame displays, subway/transit ad cards, banners

Opacity: 99%

Compostable, biodegradable

PART	SIZE	LIST
71894	60"X20'	$25.72
71895	60"X300'	$385.79

COMPATIBILITY U UV Cure L Latex ♲ Recyclable

Magic®

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MARKET APPLICATIONS

- Indoor / Outdoor in enclosed displays
- Posters
- Backlights
- P.O.S. Frame Displays
- Subway/Transit Ad Cards / Transit Units
- Banners

PRODUCT DESCRIPTION

- Satin, 8.5 mil , White Poster Paper.
- 1-Side Printable
- 200 gsm^s
- Opacity: 99%
- Recyclable

GENERAL AVAILABILITY

Eco-Satin	Part #
54" x 20'	71935
54" x 150'	71936
60" x 150'	71962
63" x 150'	71937

Note: 3" core

FEATURES & BENEFITS

- 1-Side Printable Promotional Paper
- Recyclable
- Economically priced
- Designed to offer exceptional print performance on Latex, Solvent, Eco-Solvent and UV cure printing systems.

MEDIA COMPATIBILITY

- Designed to offer exceptional print performance on Latex, Solvent, Eco-Solvent and UV cure ink jet printers, such as HP, Epson, Vutek, Nur, Mimaki, Mutoh, etc.

* For complete Magic® product line, refer to Magic Printer Compatibility Chart under Technical Support on www.magicinkjet.com.

* For additional product details – including printer settings and lamination guidelines – see Application Guide under Tech Support of www.magicinkjet.com

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ECOSATIN PSA

Economical Indoor Satin Paper with PSA

Magic® ECOSATIN PSA is a satin paper with a pressure sensitive adhesive. ECOSATIN PSA offers an economical solution by eliminating the step of applying a mounting film. This product is one-side printable and is designed to offer exceptional print performance with Solvent, Eco-Solvent and UV Cure printing systems.

PHYSICAL PROPERTIES

Caliper of Base and PSA	9 mil	Type:	Paper w/ PSA
Liner Caliper/Type:	1.5 mil Clear PET	Optimum Print RH:	30-80%
Finish:	Satin	Optimum Print Temp.:	70°F (21°C)
60° Gloss:	4.2	Recommended Shelf Life:	1 yr
Whiteness:	93	Outdoor life Expectancy:	Short term in enclosed displays
Opacity:	99	Indoor Life Expectancy:	*12 months

*Based on manufactures testing

APPLICATIONS GUIDELINES

Printer & Ink Compatibility: ECOSATIN PSA is one-side printable. It is compatible with Solvent, Eco-Solvent, and UV Cure printing systems, such as Mimaki, Epson, Colorspan, Vutec and Nur.

Water-fastness: ECOSATIN PSA has some water resistance but paper, in general, is not water-fast.

Material Handling: Do not allow the material to sit for long periods on heated printer platens. Handle rolls with care. Do not crush roll ends as this may result in tunneling.

Take-up reels can be used. Store unused material in its original packaging.

FINISHING

Image Protection: Over-laminates will protect the image from physical damage. Cold pressure laminates should be used. Allow image to dry completely prior to handling and laminating.

RECYCLING AND DISPOSAL

Disposal by recycling of ink jet media is the preferred method. Where recycle markets do not exist, disposal by landfill or an approved incinerator is acceptable. Refer to Magic® Recycle Bulletin on www.magicinkjet.com.

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Magic® ECOSATIN PSA
POSTER PAPER WITH PERMANENT ADHESIVE BACK

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MARKET APPLICATIONS

- Indoor/Outdoor in enclosed displays
- Mounted Posters
- Mounted Backlights
- P.O.S. Mounted Displays
- Mounted Subway/Transit Ad Cards/Transit Units

PRODUCT DESCRIPTION

- Satin, 9 mil white poster paper with pressure sensitive adhesive with a 1.5 mil clear poly liner
- 1-side printable
- Opacity: 99%

GENERAL AVAILABILITY

ECOSATIN PSA	Part #
50" X 15'	72296
50" X 100'	72300

Note: 3" core

FEATURES & BENEFITS

- Convenient permanent pressure sensitive adhesive paper.
- Economically priced
- Designed to offer exceptional print performance on, Solvent, Eco-Solvent and UV cure printing systems.

MEDIA COMPATIBILITY

- Designed to offer exceptional print performance on Mimaki, Epson, Colorspan, Vutek and Nur.

- For complete Magic® product line, refer to the Magic® Printer Compatibility Chart under Technical Support on www.magicinkjet.com.

- For additional product details, including printer settings and lamination guidelines – refer to the Application Guide under Tech Support of www.magicinkjet.com

Phone: 1-800-628-8604
Fax: 1-800-861-4128

Disclaimer: Information presented in this product sell sheet is intended to offer a useful reference in selecting media for your output. No media warranties are implied unless specifically mentioned. Printer and / or ink changes may affect results. The most current product information may be found at www.magicinkjet.com.

Date: July 2014

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ECO-SATIN

8.5 white poster paper

Indoor/outdoor enclosed displays

Posters, backlits, banners, POS displays, interior transit ads

1-side printable, 99% opacity

Economically priced

PART	SIZE	LIST
71935	54"X 20'	$16.16
72500	30"X150'	$68.66
71936	54"X150'	$121.24
71962	60"X150'	$134.70
71937	63"X150'	$141.44

COMPATIBILITY   E Eco Solvent   S Solvent   U UV Cure   L Latex   ♻ Recyclable   💡 Backlit

MUSEO® ENHANCE™ Clear Coat Solution

PRODUCT APPLICATION GUIDE

Museo® ENHANCE™ Water-Based Protection is a cost effective liquid laminate that protects water resistant canvases and inks from UV exposure, abrasion, marring, chemicals and water.

The match component set of Museo® Enhance™ and Museo® Artistry™ Canvas or Magiclee™ Torino 17M Canvas, guarantees archivability of the finished product for 100+ years*. The match component sets have been tested for image stability at the Image Permanence Institute at Rochester Institute of Technology under cool fluorescent light, 50 lux*.

Printer   Ink   Image Stability
Canon® IPF 8000 Lucia   102+ years*
Epson® 9800   UltraChrome K3 89+ years*

ENHANCE ™ top coat offers superior image stability for digital fine art and photo applications and is available in three finishes: Glossy, Satin and Matte.

APPLICATION GUIDELINES:

Compatibility: For guaranteed achivability of 100+ years*, use one of the two match component sets mentioned above. Museo® ENHANCE top coat solution is also compatible with most water resistant canvases and micro-porous inkjet receptive substrates.

What you will need:
- High-density foam roller or a short nap roller with no more than 3/16" nap.
- Pan for liquid laminate.
- Cardboard or flat surface to roll off excess liquid. (Using a pan with grooves to load the roller may transfer the grooved pattern to image).
- Covered work table

Application:
- Please allow the print to dry thoroughly before applying the Enhance Protection.
- Allow ENHANCE™ to equilibrate to room temperature. Optimum coating conditions are 50%RH / 70 degrees F.
- Saturate the roller, but remove excess fluid so it is not dripping off the roller.
- Apply one thin, even coat, moving from one side of the canvas to the other.
- Allow to dry about 30 minutes to 1 hour.
- Apply a second thin to medium even coat, moving from side to side.
- Allow to thoroughly dry.

Clean rollers and pan quickly using warm soapy water.
Rinse with clean water.
Pretest new canvas, inks & profiles for compatibility.

MUSEO® ENHANCE™— Clear Coat Solution

Museo® Enhance™ is the ideal coating for Giclee canvas applications. Museo® Enhance™ exhibits the flexibility for stretching canvas with no cracking of the clear coat. It is formulated to work on micro porous and porous ink jet receptive layers. Museo® Enhance™ reduces or eliminates pinholes normally encountered when applying liquid laminates to ink jet coated canvas. Museo® Enhance™ is formulated for water resistant canvas only and is used with pigmented inks. Museo® Enhance™ Gloss, Semi-gloss and Matte coating solutions can be applied with most application techniques including automated equipment.

PROPERTIES

- Use instead of film laminates
- Water-based
- Low odor
- Enhanced color
- High flexibility
- Contains state-of-the-art UV inhibitors and light stabilizers
- High performance—Excellent exterior durability
- Protects from abrasion and marring
- Chemical resistant
- Water resistant
- Will not yellow
- Use on digital output: solvent based ink, pigment ink (non-water-sensitive)
- Apply with roller, spray or automated equipment
- Easy clean-up with soap and water
- Available in 3 finishes: Gloss, Semi-gloss and Matte
- Packaging: Quarts and Gallons

MUSEO® ENHANCE™ Clear Coat Solution

PRODUCT APPLICATION GUIDE

Museo® ENHANCE™ Water-Based Protection is a cost effective liquid laminate that protects water resistant canvases and inks from UV exposure, abrasion, marring, chemicals and water.

The match component set of Museo® Enhance™ and Museo® Artistry™ Canvas or Magiclee™ Torino 17M Canvas, guarantees archivability of the finished product for 100+ years*. The match component sets have been tested for image stability at the Image Permanence Institute at Rochester Institute of Technology under cool fluorescent light, 50 lux*.

Printer   Ink   Image Stability
Canon® IPF 8000 Lucia   102+ years*
Epson® 9800   UltraChrome K3   89+ years*

ENHANCE ™ top coat offers superior image stability for digital fine art and photo applications and is available in three finishes: Glossy, Satin and Matte.

APPLICATION GUIDELINES:

Compatibility: For guaranteed achivability of 100+ years*, use one of the two match component sets mentioned above. Museo® ENHANCE top coat solution is also compatible with most water resistant canvases and micro-porous inkjet receptive substrates.

What you will need:
• 	High-density foam roller or a short nap roller with no more than 3/16" nap.
• 	Pan for liquid laminate.
• 	Cardboard or flat surface to roll off excess liquid. (Using a pan with grooves to load the roller may transfer the grooved pattern to image).
• 	Covered work table

Application:
• 	Please allow the print to dry thoroughly before applying the Enhance Protection.
• 	Allow ENHANCE™ to equilibrate to room temperature. Optimum coating conditions are 50%RH / 70 degrees F.
• 	Saturate the roller, but remove excess fluid so it is not dripping off the roller.
• 	Apply one thin, even coat, moving from one side of the canvas to the other.
• 	Allow to dry about 30 minutes to 1 hour.
• 	Apply a second thin to medium even coat, moving from side to side.
• 	Allow to thoroughly dry.

Clean rollers and pan quickly using warm soapy water.
Rinse with clean water.
Pretest new canvas, inks & profiles for compatibility.

www.museofineart.com   1-800-628-8604
Rev 6.20.11

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TEXTILES
Magic® FAB-6

Fabric Banner for Aqueous, Solvent/Eco and Latex Systems

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www.magicinkjet.com

MARKET APPLICATIONS

- Indoor Flags
- Outdoor Banners
- Pop-Up Displays
- Point-of-Sale Displays
- Window Decorations and Window Backlits

PRODUCT DESCRIPTION

- 7 mil thickness
- 100% polyester woven fabric
- Compatible on most aqueous, solvent & latex ink jet printers

GENERAL AVAILABILITY

FAB-6	Core Size	Part #
36" x 15'	3"	49020
36" x 150'	3"	49020
42" x 150'	3"	48428
50" x 150'	3"	46947

Universal 3" cores with 2" core adapters.

FEATURES & BENEFITS

- Soft appearance, a favorite for retail displays
- Works for both frontlit and backlit
- Designed for use with aqueous, solvent, eco-solvent and HP latex ink systems

MEDIA COMPATIBILITY

FAB-6 is compatible with HP DesignJet, Epson, Canon and other water-based piezo printers. The universal coating can be used with both dye and pigment inks. FAB-6 can also be used on most solvent ink jet and eco-solvent and latex printers, including Roland, Vutek, Seiko, Mimaki , HP and Mutoh.

* For complete Magiclee® /Magic® product set, refer to the Printer Compatibility Charts under Technical Support on www.magicinkjet.com.

* For additional product details – including printer settings and finishing guidelines – see Application Guide under Tech Support of www.magicinkjet.com

* For ICC profile availability, see www.magicinkjet.com

Phone: 1-800-628-8604
Fax: 1-800-861-4128

Disclaimer: Information presented in this product sellsheet is intended to offer a useful reference in selecting media for your output. No media warranties are implied unless specifically mentioned. Printer and / or ink changes may affect results. The most current product information may be found at www.magicinkjet.com.

Date: August 2012

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FAB-6
INK JET POLYESTER INDOOR/OUTDOOR FABRIC
for Aqueous and Solvent Ink Jet Printing Systems

FAB-6 is a 7 mil 100% polyester woven fabric ideal for producing indoor flags, displays, window decorations, pop-up displays, window backlits, and outdoor banners. FAB-6 has a unique ink jet coating that allows it to be compatible on most aqueous, solvent, eco solvent ink jet printers.

PHYSICAL PROPERTIES

Basis Weight	114 gm^2 / 3.3 oz^2 yd	Optimum Print RH:	20-80%	Recommended Shelf Life:	1yr
Caliper:	7 mil (+/- .4) / 178 micron	Optimum Print Temp.:	70°F (21°C)	Outdoor life Expectancy*	
% Opacity:	75%	Flammability Rating:	**Class A	Protected / Unprotected:	6 mo / 3 mo
Whiteness/Brightness:	93 / 90	Fire Certificate:	Germany B1	Indoor Life Expectancy*	
Gloss (60°):	1 (matte)			Protected / Unprotected:	1 yr / 6 mo

*Based on manufacturer's accelerated age testing. Results may vary based on usage.
**Based on ASTM E84 test method
***Based on Germany B1 Fire Rating

APPLICATIONS GUIDELINES

Printer & Ink Compatibility: FAB-6 is compatible on Hewlett-Packard DesignJet®, Canon iPF series, Epson Stylus series, and other water-based piezo printers. The universal coating can be used with both dye and pigment water based inks. Pigment inks provide a more stable image from light fade. FAB-6 can also be used on most solvent ink jet and eco-solvent printers such as: MimakiJV3, Mutoh, Seiko, Vutek, Scitex and Roland. It is not recommended for continual printing on Epsons as the fabric may begin to skew and crease after approximately 7ft of continual printing. To avoid this, stop printing after ~7ft and reload fabric.

Printer Settings: To optimize print quality, printers should be set "Heavy Coated Paper" on HP printers. The recommended ink saturation level is 300% for all printer types. If increased density is wanted, the fabric can accept 400%, but some bleeding will occur at higher ink saturation areas. Use no or minimal vacuum pressure to prevent fabric creases that may induce headstrike. For solvent printers, 120°F for both pre and printer heaters are recommended. These settings are a good starting point.

Material Handling: Store unused material in its original packaging. FAB-6 is water resistant and will not run or bleed when wet, however ink will smudge if rubbed when wet. Washing or dry cleaning of the material is not recommended. Any loose threads should be removed before printing to prevent contact with cartridges or printer components. Be certain ink is completely dry prior to handling.

FINISHING RECOMMENDATIONS

Tape and Stitched Hem: Standard high-tack banner tape can be used but can alter the burning characteristics of the material. Follow the guidelines of the tape manufacturer. If sewing, it is recommended to stitch in non-imaged borders to prevent coating scratching in high ink areas. Fabric heat knives should be used to cut final graphics to eliminate fraying on ends. It is recommended to cut fabric on a glass surface with a metal ruler to prevent browning of edges. FAB-6 can be heat welded back-to-back.

Grommeting: Grommets should be placed in the hemline along the length of the banner so that the grommet is through two layers of the fabric. Corner grommets should be placed where the length and width hems cross, so that the grommet is through four layers.

Surface Protection: Be certain that graphic is completely dry prior to finishing. Liquid laminates are compatible and provide excellent surface protection. Always pretest spray laminates for compatibility prior to use. The flammability and handling characteristics of the fabric may change when protection is applied.

8/20/12

MATTE PRESENTATION PAPERS
Magiclée® & Magic® FIRENZE 132 & 170

(DMPG132 & DMPG 170)

Making all Great Images Count

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MARKET APPLICATIONS

- General Purpose Signage
- Posters
- POP Displays; Trade Show Graphics

PRODUCT DESCRIPTION

- 132 gsm (35 lb) and 170 gsm (45 lb) papers
- Matte surface; high opacity
- Bright white
- Compatible with dye and pigment inks
- Impressive performance-to-cost value for graphic art and prepress applications.

GENERAL AVAILABILITY

FIRENZE 132	Part #	FIRENZE 170	Part #
24" x 10'	70378	24" x10'	70379
36" x 100'	66913	24" x100'	73385
36" x 300'	66914	36" x100'	73386
42" x 100'	61477	42" x100'	73387
44" x100'	66915	44" x100'	73388
54" x100'	68060	50" x100'	73389
60" x 100'	68061	54" x100'	73390

Core =2"

FEATURES & BENEFITS

- Matte surface for no-glare viewing
- Bright white base for maximum color gamut
- Economical for most budgets and applications
- Fast dry times and easy lamination makes these excellent choices for high-volume production applications

MEDIA COMPATIBILITY

* Compatible printers include HP DesignJet®, Encad, ColorSpan, Canon, Epson, and other piezo and thermal, water-based systems. Compatible with pigment and dye inks, with pigment inks offering greater resistance to UV fade.

* For complete Magic® product set, refer to Magiclee Printer Compatibility Chart under Technical Support on www.magicinkjet.com.

* For additional product details – including printer settings and lamination guidelines – see Application Guide under Tech Support of www.magicinkjet.com

* For ICC profile availability, see www.magicinkjet.com

Phone: 1-800-628-8604
Fax: 1-800-861-4128

Disclaimer: Information presented in this product sellsheet is intended to offer a useful reference in selecting media for your output. No media warranties are implied unless specifically mentioned. Printer and / or ink changes may affect results. The most current product information may be found at www.magicinkjet.com.

Date: August 2012

MAGIC® APPLICATIONS GUIDE

GBL-9
Satin Backlit Film
For Solvent, Eco Solvent, Latex, & UV Cure Ink Jet Printing Systems

MAGIC® GBL-9 is a satin backlit film for use in solvent, eco-solvent, HP Latex and UV Cure printing systems. GBL-9 is a backlit film recommended as a front printing and viewing film where high density can be achieved. It is ideal for backlit signage applications, and provides maximum transmitted and reflected ink density, ensuring vivid color and high image resolution. GBL-9 is suitable for both indoor and outdoor light box graphics and kiosks; has excellent scratch resistance, and does not require lamination

PHYSICAL PROPERTIES

Caliper	7.0 mil (179 microns)
Opacity	67
Gloss of Print Side (60°)	99 with white backer
Optimum Printing Environment	70°F (35-70% RH)

APPLICATIONS GUIDELINES

Imaging: The print needs to be front imaged and viewed from the image side. The print side is the gloss side and it is wound to the outside of the roll. The non-print side is much duller in sheen.

Printer & Ink Compatibility: GBL-9 may be printed in most solvent, eco-solvent, latex & UV Cure printers such as: Mimaki , Mutoh , Vutek, Nur, Roland, Epson, HP Latex, etc. Please refer to the Magic Solvent Printer Compatibility Chart. To allow for ink outgassing, imaged product needs to rest 24 hours before handling.

Printer Settings: Dry-time will vary depending on ink type and the ink saturation level used. Optimized printer settings will vary from printer manufactures. A good starting point for heat settings 42°C (105°F) for pre-heat and 38°C (100°F) and post heat. Use maximum heat on exit dryer. Measures should be taken to minimize static on the printer, as ink over-spray may result if low level static is generated.

Color Calibration: ICC color profiles may be obtained for selected RIP, ink and printer combinations on the magicinkjet.com web site. Profile solutions are continually being generated, so consult the web page for current availability.

Water Resistance: Condensation in a light box will not affect the image. Lamination is not required but is recommended when an image will be exposed to repeated moisture or physical handling or when prolonged product life is needed. See lamination section below. GBL-9 should be installed with the image side facing out.

FINISHING RECOMMENDATIONS

Image Protection: Due to the waterfast coating, lamination is not required. Overlaminates will protect the image from physical damage if image is unprotected by glass. Cold pressure laminates is the preferred method. If using heat activated laminates, it is recommended to encapsulate, leaving 1/8" safe edge around the entire graphic to ensure complete waterfastness.

Lighting: Viewing with reflected or transmitted light yields outstanding image contrast and color vibrancy.

RECYCLING AND DISPOSAL

PET   Disposal by recycling of ink jet media is the preferred method. Where recycle markets do not exist, disposal by landfill or an approved incinerator is acceptable. See Magic Recycle Bulletin @ www.magicinkjet.com

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DISPLAY FILMS
Magic® GBL-9

Satin Backlit Film for Solvent, Eco, Latex & UV Cure

Making all Great Images Count

MARKET APPLICATIONS

- High quality, promotional indoor and outdoor backlit signage
- Backlit tradeshow displays
- Light box graphics and kiosks

PRODUCT DESCRIPTION

- 7.0 mil, semi-opaque, one-side satin polyester
- Front print, front view product
- For solvent, eco-solvent , UV cure & Latex printers.
- Durable, tear-resistant

GENERAL AVAILABILITY

GBL-9	Part #
36" x 10'	70717
36" x 100'	70718
54" x 100'	70721
60" x 100'	70722

Core=3 inch

FEATURES & BENEFITS

- Front print, front view, satin backlit
- High image resolution and vivid color
- Maximum transmitted & reflected ink density
- Durable 7 mil polyester
- For solvent, eco-solvent, latex & UV cure printing
- Lamination with encapsulated is the best way to ensure complete water fastness: cold pressure laminates are recommended
- Recyclable

MEDIA COMPATIBILITY

GBL-9 is compatible with most solvent and eco-solvent ink, latex and UV cure printing systems – including Mimaki, Mutoh, Seiko, Vutek, Scitex, Nur, Roland, Epson, Hewlett-Packard, etc.

* For complete Magic® product set, refer to Magic Printer Compatibility Chart under Technical Support on www.magicinkjet.com.

* For additional product details – including printer settings and lamination guidelines – see Application Guide under Tech Support of www.magicinkjet.com

* For ICC profile availability, see www.magicinkjet.com

Phone: 1-800-343-0818

Date: July 2012

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MAGIC® APPLICATIONS GUIDE

GBL-9
Satin Backlit Film
For Solvent, Eco Solvent, Latex, & UV Cure Ink Jet Printing Systems

MAGIC® GBL-9 is a satin backlit film for use in solvent, eco-solvent, HP Latex and UV Cure printing systems. GBL-9 is a backlit film recommended as a front printing and viewing film where high density can be achieved. It is ideal for backlit signage applications, and provides maximum transmitted and reflected ink density, ensuring vivid color and high image resolution. GBL-9 is suitable for both indoor and outdoor light box graphics and kiosks; has excellent scratch resistance, and does not require lamination

PHYSICAL PROPERTIES

Caliper	7.0 mil (179 microns)
Opacity	67
Gloss of Print Side (60°)	99 with white backer
Optimum Printing Environment	70°F (35-70% RH)

APPLICATIONS GUIDELINES

Imaging: The print needs to be front imaged and viewed from the image side. The print side is the gloss side and it is wound to the outside of the roll. The non-print side is much duller in sheen.

Printer & Ink Compatibility: GBL-9 may be printed in most solvent, eco-solvent, latex & UV Cure printers such as: Mimaki , Mutoh , Vutek, Nur, Roland, Epson, HP Latex, etc. Please refer to the Magic Solvent Printer Compatibility Chart. To allow for ink outgassing, imaged product needs to rest 24 hours before handling.

Printer Settings: Dry-time will vary depending on ink type and the ink saturation level used. Optimized printer settings will vary from printer manufactures. A good starting point for heat settings 42°C (105°F) for pre-heat and 38°C (100°F) and post heat. Use maximum heat on exit dryer. Measures should be taken to minimize static on the printer, as ink over-spray may result if low level static is generated.

Color Calibration: ICC color profiles may be obtained for selected RIP, ink and printer combinations on the magicinkjet.com web site. Profile solutions are continually being generated, so consult the web page for current availability.

Water Resistance: Condensation in a light box will not affect the image. Lamination is not required but is recommended when an image will be exposed to repeated moisture or physical handling or when prolonged product life is needed. See lamination section below. GBL-9 should be installed with the image side facing out.

FINISHING RECOMMENDATIONS

Image Protection: Due to the waterfast coating, lamination is not required. Overlaminates will protect the image from physical damage if image is unprotected by glass. Cold pressure laminates is the preferred method. If using heat activated laminates, it is recommended to encapsulate, leaving 1/8" safe edge around the entire graphic to ensure complete waterfastness.

Lighting: Viewing with reflected or transmitted light yields outstanding image contrast and color vibrancy.

RECYCLING AND DISPOSAL

Disposal by recycling of ink jet media is the preferred method. Where recycle markets do not exist, disposal by landfill or an approved incinerator is acceptable. See Magic Recycle Bulletin @ www.magicinkjet.com

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SOLVENT INK JET
Magic® GFCVM
Matte Canvas

Making all Great Images Count

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MARKET APPLICATIONS

- Photo / Portrait
- Fine Art Reproductions
- Museum Art / Photo Display / Maps
- Banners

PRODUCT DESCRIPTION

- Magic® brand artist stretch canvas
- Matte poly/cotton blend, 15 mil
- Designed for solvent and eco-solvent printers

GENERAL AVAILABILITY

GFCVM	Part #
30" x 40'	66016
36" x 15'	66026
36" x 75'	66027
50" x 75'	66028
54" x 75'	66029
60" x 75'	66030

Core = 3 inch

FEATURES & BENEFITS

- Designed for solvent, eco-solvent, latex and UV cure printer systems.
- Acid-free, matte finish, artist stretch canvas
- Coated product that delivers superior color gamut and resolution
- Designed for high-volume production and stretching applications.

MEDIA COMPATIBILITY

GFCVM is compatible with Vutek®, Mimaki JV3, Mutoh Toucan, HP Latex, Nur, Roland, Scitex, and others.

* For complete Magic® product set, refer to Magic Grand Format and Solvent Ink Jet Media Printer Ink Set Compatibility Chart under Technical Support on www.magicinkjet.com.

* For additional product details – including printer settings and lamination guidelines – see Application Guide under Tech Support of www.magicinkjet.com

* For ICC profile availability, see www.magicinkjet.com

Phone: 1-413-539-5731
Fax: 1-800-861-4128

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Date: July 2012

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GFCVM
Ink Jet Stretch Canvas
For Solvent Ink Jet Printing Systems

MAGIC® GFCVM is an acid-free, matte finish, artist stretch canvas designed for long-term, fade resistant fine art or photo reproductions when imaged with solvent and eco-solvent ink jet printers. The polyester/cotton blend canvas has a specifically designed coating which delivers superior color gamut and resolution. GFCVM has the added bonus of water resistance when printed with solvent / eco solvent inks.

PHYSICAL PROPERTIES

Caliper	15 +/- 3 mil (375 microns)
Basis Weight	300 +/- 45 g/m^2 (8.8 oz/yd^2)
Whiteness	81
Gloss (60°)	3.9
Optimum Printing Environment	70°F (30-70% RH)
Flame Spread Classification	Class B, based on ASTM E84 test method

APPLICATIONS GUIDELINES

Printer & Ink Compatibility: GFCVM may be printed using most solvent, eco-solvent, latex, and UV cure printing systems such as: Mimaki JV3, Mutoh Toucan, DGI, Vutek, Nur, Roland etc.

Printer Settings: Ink coverage of up to 250% is recommended. Suggested heater settings: pre-heat 58° C, print heat 52° C. Due to the heavy weight of the canvas, feed rate through the printers may not be consistent, causing prints to differ slightly in size from print to print or from the expected size after RIP'ing. To optimize print quality, printers should be set for highest print quality. ICC color profiles for Magic brand products can be obtained for selected RIP, ink and printer combinations on the magicinkjet.com web page. Profile solutions are continually being developed and the web page updated, so periodically consult the web page for profile availability.
GFCVM may be loaded into the printer in roll or sheet form. Before loading canvas, the cutting mechanism MUST be turned off or removed. If you do not turn off the cutter, the printer head may jam during the cutting sequence. Once the canvas is loaded, and before printing, advance the front edge 2 to 3 inches past the printhead to avoid head strike. After a print is completed, manually cut the print from the roll and remove the roll from the printer.

Base Consistency: The imaging layers of the material will be consistent, yielding repeatable image performance, but due to the material being a natural base, white point and fabric weave can vary from lot to lot of material.

Mounting:

Water Resistance: GFCVM has a high degree of water resistance due to the use of solvent inks. The water resistance may be affected if the recommended ink saturation level is exceeded.

Surface Protection: Liquid laminates are compatible and provide excellent surface protection. Always pretest the liquid laminate for compatibility prior to using. Magic® Enhance or Marabu's Clearshield Type C formula is recommended, except when using HP Latex inks. . It is not recommended to overlaminate with pressure sensitive laminates because they do not have complete contact with the surface of the textured canvas. Delamination can result.

Material Storage: Unimaged material should be stored at 72° F (+/-5°) for no more than 1 year. After use, the roll should be stored in its original packaging in the poly bag for no more than 1 year.

FINISHING RECOMMENDATIONS

After printing, material should be permanently attached to a rigid board or stretcher bars with staples or tacks. Using glue or pressure sensitive adhesives is not recommended due to natural shrinkage or expansion. Shrinkage may also cause spacing between paneled jobs not mounted properly. All edges of the material should be affixed to the mounting surface to prevent the edges from curling. All canvas is susceptible to edge cracking if stretched improperly.
Refer to the technical bulletin "Mounting Canvas onto a Stretcher Frame" on the Magicinkjet.com web site.

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SOLVENT INK JET PAPER
Magic® GFIOP140 & 212
Latex Paper

Making all Great Images Count

MARKET APPLICATIONS

- Indoor / Outdoor Display Posters
- Backlit Transit Graphics
- Theater Posters, Promotional Signage
- POP Displays
- Digital Wallcovering (212 product)

PRODUCT DESCRIPTION

- 140 gsm (6 mils) and 212 gsm (9.9 mils)
- Latex-saturated, wet-strength paper
- High resolution, luster printing surface
- Heavyweight 212 product is designed for wallcovering

GENERAL AVAILABILITY

Sizes	GFIOP140 Part #	GFIOP212 Part#
42" x 200'	48743	
48" x 200'	48744	
54" x 20'	46474	46476
54" x 150'	46473	67106
54" x 300'		66835
54" x 500'	46679	
54" x 1000'	46678	
60" x 200'	47014	47015
60" x 500'	44422	44423
61" x 1000' (6" core)	37121	37122

Core= 3", except were note

FEATURES & BENEFITS

- Suitable for high-production solvent ink jet systems
- Great lay-flat
- Superior printer conveyance; fast, consistent drying
- Smooth surface offers exceptional print fidelity with a distinctive luster finish.
- Strong, flexible and durable; handles will when posted
- Resists cracking when folded
- Product may be laminated for additional protection.
- Products pass Class A flame spread (ASTM E-84-97A) as manufactured.

MEDIA COMPATIBILITY

GFIOP140 and GFIOP212 are compatible with most solvent ink jet printing systems.

* For complete Magic® product set, refer to Magic Grand Format and Solvent Ink Jet Media Printer Ink Set Compatibility Chart.

* For additional product details – including printer settings and finishing guidelines – see Application Guide under Tech Support of www.magicinkjet.com

* For ICC profile availability, see www.magicinkjet.com

Phone: 1-800-628-8604
Fax: 1-800-861-4128

Disclaimer: Information presented in this product sellsheet is intended to offer a useful reference in selecting media for your output. No media warranties are implied unless specifically mentioned. Printer and / or ink changes may affect results. The most current product information may be found at www.magicinkjet.com.

Date: September 2010

MAGIC APPLICATIONS GUIDE

GFIOP140, GFIOP212

Indoor/Outdoor Poster Paper for Promotional Signage & Wallcovering Applications for Solvent Ink Printing Systems
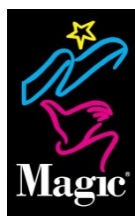
MAGIC ® GFIOP is a one-side coated paper designed to meet the demands of high production solvent and eco-solvent* ink jet printers. This latex-saturated, wet strength paper features a smooth surface which offers exceptional print fidelity with a distinctive luster finish. Strength, flexibility and durability are hallmark traits of GFIOP. It resists cracking when folded, and film lamination is not required in most intended applications. Product passes Class A flame spread tests (ASTM E-84) as manufactured.

PHYSICAL PROPERTIES

Parameter	GFIOP140	GFIOP212
Basis Weight	140 g/m^2 (4.1 oz/yd^2)	212 g/m^2 (6.2 oz/yd^2)
Caliper	6 mil	9.9 mil
Sheffield Smoothness	18	15
Tensile (MD/CD)	50/37 (lbs/in)	60/48 (lbs/in)
Tear Strength (MD/CD)	115/110 (g)	200/185 (g)
% Elongation	9.3/16 (%)	8/14 (%)
% Opacity	95%	95%
Whiteness	81	81
Gloss (75°)	55	42
Wet Expansion	2%	2.07%
Optimum Printing Conditions	70°F (35-70% RH)	

Flame Spread Classification (ASTM E-84), Class A

APPLICATION GUIDELINES

Printer & Ink Compatibility: GFIOP140 &212 may be printed in most solvent and eco-solvent printing systems such as: Mimaki JV3, Mutoh Toucan, Seiko, Vutek, Scitex, Nur, Roland Versa Camm, Roland Sol Jet, etc.

Printer Settings: Optimized printer settings will vary from printer manufacturers. Recommended heater settings: pre heat 52 °C, and post heat 58° C. *Note: Eco-solvent ink users. These products require slower print speeds and/or higher resolutions. Printing with 720X1440 dpi at 16 or 32 pass may be necessary. You must use the proper settings combined with the proper ICC profile.

FINISHING RECOMMENDATIONS

Surface Protection: For indoor and outdoor applications, GFIOP140 & GFIOP212 will hold up for 3-6 months without lamination. It is recommended to overlaminate if graphic will be exposed to severe conditions or where longer life is needed. Pressure-sensitive overlaminates are recommended for outdoor graphics. Liquid laminates can be used for wallcovering applications. (Clearstar Clearshield formula is not recommended with HP Latex inks.)

Promotional Signage: Designed for indoor and outdoor promotional signage. Handles well in all types of posting situations. Standard starch-based pastes may be used. Also recommended is Shu-Stik Ultra Billboard Adhesive Product #8750.

Decorative Wallcovering & Murals: Can be pasted and hung just like standard wallcovering materials. Standard pastes such as Henkel Metylan Cellulose Wallpaper Paste provide adequate adhesion and allow for easier stripping when the wallcovering is to be removed or replaced. Mixing instructions for most standard wallpaper pastes include water measure for both high yield and high tack concentrations. The lower water measure is recommended for this product. Heavy duty pastes such as Supron Supro Clear 34, Harvest 1st Choice GH34, and Rowan Professional Heavy Duty Clear Pro 838 come premixed, have a more aggressive adhesive, and are recommended for more permanent applications.

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PHOTOREALISTIC PAPERS
Magic® GFPHOTO

Glossy Photorealistic Paper

Making all Great Images Count

MARKET APPLICATIONS

- Photo / Portrait
- Photo Display / Maps
- Fine Art Reproductions
- Posters

PRODUCT DESCRIPTION

- 7 mil, 185 gsm
- One-of-a-kind glossy photorealistic paper specifically designed for solvent ink jet printers.
- Indoor use unless encapsulated with a safe edge

GENERAL AVAILABILITY

GFPHOTO	Part #
30" x 100'	65747
36" x 20'	64971
36" x 100'	64972
50" x 100'	64973
50" x 125'	64976
50" x 200'	68805
54" x 100'	68037
54" x 500'	*70851
60" x 100'	65271
60" x 125'	65272
60" x 200'	68806
60" x 500'	*70852

* 6" core, all others 3" core w/ 2" adapter.

Features & Benefits

- Specially designed for solvent, eco-solvent, latex, & UV cure printers
- High degree of whiteness and superior color gamut
- Extremely smooth surface for high photographic resolution
- Cost-effective solution for producing short-term, high resolution satin graphics.
- Recyclable

MEDIA COMPATIBILITY

GFPHOTO is compatible with most solvent, eco-solvent, Latex, and UV cure printers including: Mimaki JV3, Roland XC 540, Mutoh Toucan, and Vutek.

* For complete Magic® product set, refer to Magic Printer Compatibility Chart under Technical Support on www.magicinkjet.com.

* For additional product details – including printer settings and finishing guidelines – see Application Guide under Tech Support of www.magicinkjet.com

* For ICC profile availability, see www.magicinkjet.com

Phone: 1-800-628-8604
Fax: 1-800-861-4128

Disclaimer: Information presented in this product sellsheet is intended to offer a useful reference in selecting media for your output. No media warranties are implied unless specifically mentioned. Printer and / or ink changes may affect results. The most current product information may be found at www.magicinkjet.com.

Date: February 2013

COVERIS™
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GFPHOTO
Photo Realistic Paper
For Solvent, Eco Solvent, Latex and UV Cure Printing Systems

MAGIC®GFPHOTO is a one of a kind photo realistic paper specifically designed for solvent, eco-solvent, latex, and UV cure printers. GFPHOTO is a cost effective solution for printing short-term, high resolution glossy graphics and posters. GFPHOTO offers a high degree of whiteness and color gamut with an extremely smooth surface for high photographic resolution.

PHYSICAL PROPERTIES

Caliper	7 mil (178 microns)	Optimum Printing Environment	70°F (30-70% RH)
Basis Weight	185 g/m^2 (5.4 oz/yd^2)	Indoor Life Expectancy	1 year+
Whiteness	100	Opacity	97%
Brightness	90	pH value	7.5 (neutral)
Gloss (60°)	50		

APPLICATIONS GUIDELINES

Printer & Ink Compatibility: GFPHOTO may be printed in most solvent, eco-solvent, latex, and UV cure printing systems such as: Mimaki JV3, Mutoh Toucan, DGI, Vutek, Nur, Roland etc.

Printer Settings: Optimized print settings will vary from printer manufacturers. Recommended ink saturation level is 350%. Recommended heater settings of 50oC for pre-heaters and 45oC for post-heaters. These settings have been found to be a good starting point. Using the take-up reels is not recommended.

Outdoor/Indoor Use: This product is recommended for indoor applications. It may be used for outdoor applications if encapsulated with a safe edge. GFPHOTO may be over-laminated with most cold laminates and low temperature hot laminating materials. Cold pressure sensitive adhesives typically provide the most aggressive bonds and are recommended.

Material Handling & Storage: Once print is complete, roll imaged media onto a core until ready for posting. Folding of the material is not recommended. After use, the roll should be stored at 72o F (+/-5o) and in its original packaging in the poly bag with core plugs for no more than 6 months.

FINISHING RECOMMENDATIONS

Laminating: GFPHOTO may be over-laminated with most cold laminates and low temperature hot laminating materials. When the photobase is overlaminated with heavy gauge laminates and either mounted to a board or encapsulated, overlap the image with a 0.25" safe edge of laminate. This will seal the photo realistic paper, preventing moisture absorption and paper splitting. Failure to process without a safe edge when laminating will result in delamination. Use laminates of equal gauge when encapsulating to prevent image curl. Over laminating will also decrease the rate at which images fade.

Mounting: Cold pressure sensitive adhesives typically provide the most aggressive bonds and are recommended. Seal Print Mount® Removable has been found to work well with GFPHOTO. It is recommended that mounting materials be pretested before actual application.

RECYCLING AND DISPOSAL

Disposal by recycling of ink jet media is the preferred method. Where recycle markets do not exist, disposal by landfill or an approved incinerator is acceptable. See Magic Recycle Bulletin @ www.magicinkjet.com

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GFPHOTO-240
Heavyweight Photo Realistic Paper
For Solvent Ink Jet Printing Systems

MAGIC® GFPHOTO-240 is a heavyweight 240 gsm photo realistic paper specifically designed for solvent, eco-solvent, latex, and UV cure printers. GFPHOTO-240 is a premium satin paper for high resolution graphics, posters, and displays. GFPHOTO-240 is 10 mils, bright white and offers very high color gamut and saturation.

PHYSICAL PROPERTIES

Caliper	10 mil (255 microns)	Optimum Printing Environment	70°F (30-70% RH)
Basis Weight	257 g/m^2 (7.5 oz/yd^2)	Indoor Life Expectancy	1 year+
Whiteness	100	Opacity	98%
Brightness	90	Gloss (60°)	50

APPLICATIONS GUIDELINES

Printer & Ink Compatibility: GFPHOTO-240 may be printed in most solvent, eco-solvent, latex, and UV cure printing systems such as: Mimaki JV3, Mutoh Toucan, DGI, Vutek, Nur, Roland Versa Camm, etc. For more printer compatibility, refer to the Magic Printer Compatibility Chart under Technical Support on the web site.

Printer Settings: Optimized print settings will vary from printer manufacturers. Recommended ink saturation level is 350%. Recommended heater settings of 50oC for pre-heaters and 45oC for post-heaters. These settings have been found to be a good starting point. Using the take-up reels is not recommended.

Outdoor/Indoor Use: This product is recommended for indoor applications. It may be used for outdoor applications if encapsulated with a safe edge. GFPHOTO-240 may be over-laminated with most cold laminates and low temperature hot laminating materials. Cold pressure sensitive adhesives typically provide the most aggressive bonds and are recommended.

Material Handling & Storage: Once print is complete, roll imaged media onto a core until ready for posting. Folding of the material is not recommended. After use, the roll should be stored at 72° F (+/-5°) and in its original packaging in the poly bag with core plugs for no more than 6 months.

FINISHING RECOMMENDATIONS

Laminating: GFPHOTO-240 may be over-laminated with most cold laminates and low temperature hot laminating materials. When the photobase is overlaminated with heavy gauge laminates and either mounted to a board or encapsulated, overlap the image with a 0.25" safe edge of laminate. This will seal the photo realistic paper, preventing moisture absorption and paper splitting. Failure to process without a safe edge when laminating will result in delamination. Use laminates of equal gauge when encapsulating to prevent image curl. Over laminating will also decrease the rate at which images fade.

Mounting: Cold pressure sensitive adhesives typically provide the most aggressive bonds and are recommended. It is recommended that mounting materials be pretested before actual application.

RECYCLING AND DISPOSAL

Disposal by recycling of ink jet media is the preferred method. Where recycle markets do not exist, disposal by landfill or an approved incinerator is acceptable. See Magic Recycle Bulletin @ www.magicinkjet.com

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SOLVENT PHOTOREALISTIC PAPERS
Magic® GFPHOTO-240

Satin Heavy Weight Photorealistic Paper

Making all Great Images Count

www.magicinkjet.com

MARKET APPLICATIONS

- Photo / Portrait
- Photo Display / Maps
- Fine Art Reproductions
- Posters

PRODUCT DESCRIPTION

- 10 mil, 257 gsm
- Premium satin photorealistic paper specifically designed for solvent, eco-solvent, latex, and UV cure printers
- Indoor use unless encapsulated with a safe edge

GENERAL AVAILABILITY

GFPHOTO-240	Part #
30" x 10'	70917
30" x 100'	70918
50" x 100'	70919
50" x 175'	72168
50" x 200'	70920
54" x 20'	71301
54" x 100'	71299
60" x 100'	70921

Core = 3"

FEATURES & BENEFITS

- Specially designed for solvent, eco-solvent, latex, & UV cure printers
- Bright white with very high color gamut and saturation
- Extremely smooth surface for high photographic resolution
- Cost-effective solution for producing short-term, high res satin graphics and posters.
- Recyclable

MEDIA COMPATIBILITY

GFPHOTO-240 is compatible with most solvent, eco-solvent, latex, and UV cure printers including: Mimaki JV3, Roland XC 540, Mutoh Toucan, and Vutek.

* For complete Magic® product set, refer to Magic Printer Compatibility Chart under Technical Support on www.magicinkjet.com.

* For additional product details – including printer settings and finishing guidelines – see Application Guide under Tech Support of www.magicinkjet.com

* For ICC profile availability, see www.magicinkjet.com

Phone: 1-413-539-5731
Fax: 1-800-861-4128

Disclaimer: Information presented in this product sellsheet is intended to offer a useful reference in selecting media for your output. No media warranties are implied unless specifically mentioned. Printer and / or ink changes may affect results. The most current product information may be found at www.magicinkjet.com.

Date: April 2012

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Magic® GFPOLY

Glossy Polypropylene Banner
For Solvent, Eco-Solvent, Latex and UV Cure Ink Jet Systems

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MARKET APPLICATIONS

- Short-term, high resolution, glossy graphics
- Banners
- P.O.P.
- Posters

PRODUCT DESCRIPTION

- 8 mil glossy polypropylene for banner and posters.
- Specifically designed for solvent, eco solvent, latex and UV cure ink jet printers
- Indoor / Outdoor use

GENERAL AVAILABILITY

GFPOLY	Part #
36" x 20'	67059
36" x 100'	67061
54" x 100'	67062

FEATURES & BENEFITS

- Suitable for solvent, eco solvent, latex and UV cure printing platforms
- High degree of brightness and superior gamut
- Cost-effective solution for producing short-term, high resolution glossy graphics.
- Lamination is not required or recommended

MEDIA COMPATIBILITY

GFPOLY is compatible with most solvent, eco-solvent, latex and UV cure ink jet printing systems, including:
Vutek, Nur, Mimaki, Scitex, Seiko, Roland, Epson, Mutoh, etc.

* For complete Magic® product set, refer to Magic Printer Compatibility Chart under Technical Support on www.magicinkjet.com.

* For additional product details – including printer settings and finishing guidelines – see Application Guide under Tech Support of www.magicinkjet.com

* For ICC profile availability, see www.magicinkjet.com

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Date: July 2012

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MAGIC® APPLICATIONS GUIDE

GFPOLY
Glossy Polypropylene Banner
For Solvent, Eco-Solvent, Latex and UV Cure Ink Jet Printing Systems

MAGIC®GFPOLY is a glossy polypropylene banner for indoor, outdoor, and roll up applications and is specifically designed for solvent, eco-solvent, latex and UV cure ink jet printers. GFPOLY is a cost effective solution for printing short-term, high resolution glossy graphics, banners, P.O.P. displays, roll up displays, and posters.

PHYSICAL PROPERTIES

Caliper	8 mil (200 microns)
Basis Weight	155 g/m^2 (4.5 oz/yd^2)
Whiteness	87
Brightness	90
Gloss	78
Optimum Printing Environment	70°F (35-70% RH)

APPLICATIONS GUIDELINES

Printer & Ink Compatibility: GFPOLY may be printed in most solvent , eco solvent, latex and UV cure printing systems such as: Mimaki JV3, Mutoh Toucan, Seiko, Vutek, Scitex, Nur, Roland, Epson, etc.

Printer Settings: Optimized print settings will vary from printer manufacturers. Recommended ink saturation level is 320% at 720x720 dpi. It is suggested that static reduction tinsel be used to minimize static electricity. Recommended heater settings: pre heat 50° C, and post heat 42°C. These settings have been found to be a good starting point. The use of external heaters or fans will help dry the media faster. Using the take-up reels is not recommended.

Outdoor/Indoor Use: This product is recommended for indoor and short term outdoor applications. Lamination not recommended with GFPOLY.

Material Handling & Storage: Once print is complete, roll imaged media onto a core until ready for posting. Folding of the material is not recommended. After use, the roll of unprinted media should be stored at 72° F (+/-5°) and in its original packaging in the poly bag with core plugs for no more than 1 year.

FINISHING RECOMMENDATIONS

Laminating: Lamination is not required or recommended with this product. If a laminate is required, please use the Magic PPM-7, matte polypropylene product.

Hemming: Double fold banner hems with banner tape and reinforce grommet areas with strong, tear resist patches.

Mounting: Cold pressure sensitive adhesives typically provide the most aggressive bonds and are recommended.

RECYCLING AND DISPOSAL

Disposal by recycling of ink jet media is the preferred method. Where recycle markets do not exist, disposal by landfill or an approved incinerator is acceptable. See Magic Recycle Bulletin @ www.magicinkjet.com

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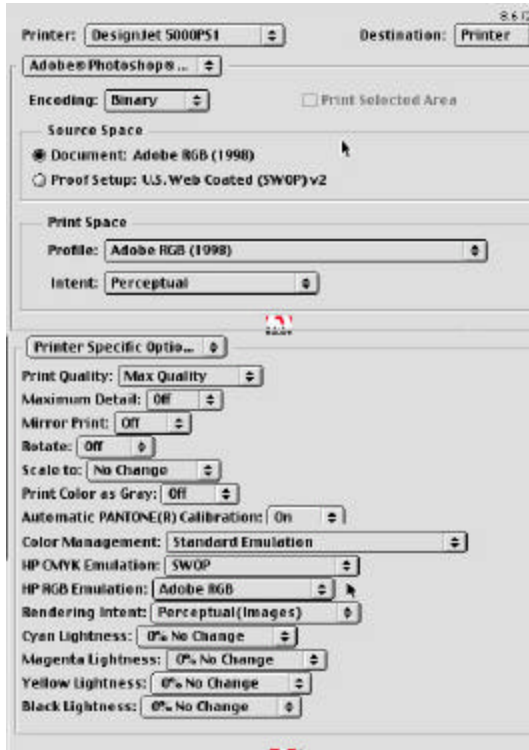
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Using the HP5000 Internal RIP Color Controls

One can change the default color settings of the HP5000 by changing the print options in the print box of the front-end software, such as Adobe Photoshop or Illustrator.
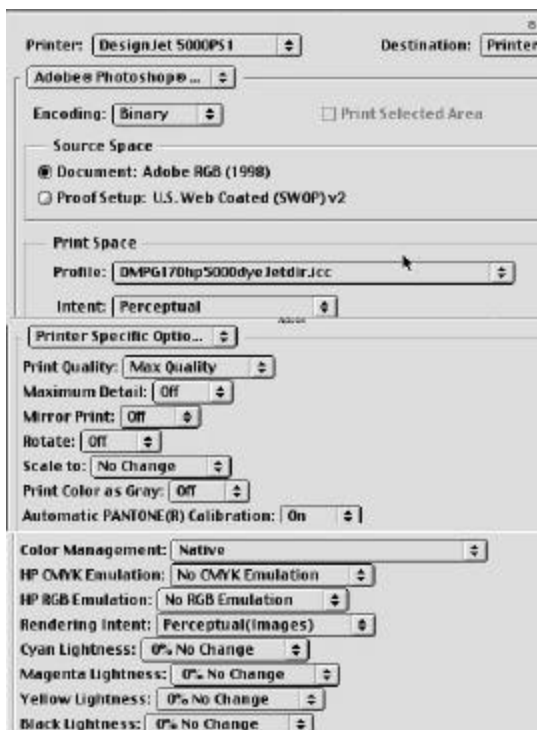
No Magic Profile

See the attached .jpg file (left) of the print dialogue box using settings if **No Magic Profile** is available. The settings work very well for almost any Magic media. The key is to have your images, if RGB, in the "Adobe 1998" colorspace; if the images are in CMYK, have them in the SWOP colorspace. You can do this by assigning a colorspace in Adobe Photoshop by choosing the image tab /mode/assign profile. Then, in the Print BOX under Adobe Photoshop, your source space will be "Adobe 1998" and your print space will be "Same as source". In "Printer Specific Options", under Color management, choose Standard Emulation. "HP CMYK emulation" now becomes active. Please select "SWOP". Under "HP RGB emulation", choose "Adobe RGB". Now the image colorspace will match the printer's internal emulation settings.

ADOBE 1998 is the recognized standard for RGB settings by Adobe and Apple. SWOP basically has been the only standard the printing industry has used for CMYK.

With Magic Profile

I'm also attaching a .jpg file (left) of the print dialogue box **With Magic Profile**. The "print space" identifies the Magic DMPG170. Under "printer specific options", we change color management back to "Native", which disables HP's CMYK and RGB emulations.

All other RIP programs (Onyx, Amiable, Wasatch, etc.) work in conjunction with the media selections on the front panel of the HP5000 printer, such as "Heavy Coated Paper". So make your closest match to the media you are using. If you are using Glossy Photobase, choose the photogloss setting. If your media does not have a close match, use the "Heavy Coated Paper" setting as a safe alternative.

4/25/02

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HP® Cross Reference **WATERBASED** Products

We are pleased to offer the following chart that cross references HP® Media with our comparable products

HP®	MAGIC® COMPARABLE PRODUCT AND DESCRIPTION	
HP Bright White Inkjet Paper	JSB20	All-Purpose Bond Paper
HP Universal Coated Paper	JSO24	Coated Inkjet Paper
HP Coated Paper	DMPG98	Coated Matte Paper
HP Universal Heavyweight Coated Paper	JSO36	Coated Inkjet Paper
HP Heavyweight Coated Paper	FIRENZE 132	Coated Matte Paper
HP Premium Matte Photo Paper	TOTAL PHOTO M	Photobase Paper
HP Universal Instant-dry Gloss Photo Paper	SIENA 200G	Photobase Paper
HP Universal Instant-dry Satin Photo Paper	SIENA 200L	Photobase Paper
HP Premium Instant-dry Gloss Photo Paper	SIENA 250G	Photobase Paper
HP Premium Instant-dry Satin Photo Paper	SIENA 250L	Photobase Paper
HP Professional Instant-dry Satin Photo Paper	SIENA 250L	Photobase Paper
HP Premium Vivid Color Backlit Film	SBL 7	Matte Backlit Film
HP Everyday Adhesive Matte Polypropylene	PPM7 PSA	Polypropylene Banner with Pressure Sensitive Adhesive
HP Universal Adhesive Vinyl	DMVLA5	Calendered Vinyl with Pressure Sensitive PSA
HP Colorfast Adhesive Vinyl	DMVLA5	Calendered Vinyl with Pressure Sensitive PSA
HP Everyday Matte Polypropylene	PPM7	Polypropylene Banner
HP Premium Matte Polypropylene	PPM7	Polypropylene Banner
HP Durable Banner with DuPont Tyvek®	TB9	Tyvek® Banner
HP Opaque Scrim	DMVB15	Scrim Outdoor/Indoor Banner
HP® Artist Matte Canvas	TORINO17M	Poly/Cotton Inkjet Canvas

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Ilford Cross Reference **WATERBASED** Products

We are pleased to offer the following chart that cross references Ilford Media with our comparable products

Ilford	MAGIC® COMPARABLE PRODUCT AND DESCRIPTION	
OMNIJET Gloss Photo RC Paper-250gsm	SIENA 250G	10 mil Gloss Photo RC Paper -250gsm
OMNIJET Satin Photo RC Paper-250gsm	SIENA 250L	10 mil Luster Photo RC Paper -250gsm
OMNIJET Gloss Photo RC Paper -195gsm	SIENA 200G	8 mil Gloss Photo RC Paper -200gsm
OMNIJET Satin Photo RC Paper -195gsm	SIENA 200G	8 mil Luster Photo RC Paper -200gsm
OMNIJET Matte Canvas -300gsm	TORINO 17M	17 mil Artist Poly/Cotton Matte Canvas -375gsm
OMNIJET Superior Graphic Matte Paper -180gsm	FIRENZE 170	Coated Matte Paper - 170 gsm
OMNIJET Superior Graphic Matte Paper - 120gsm	FIRENZE 132	Coated Matte Paper - 132 gsm
OMNIJET Matte Self-Adhesive Vinyl - 175gsm	DMVLA5	6 mil Adhesive Backed Calendered Vinyl
OMNIJET Screen Print Seperation Film - 190gsm	DMCF4HPS	4 mil Clear Polyester Film
OMNIJET Screen Print Seperation Film - 160gsm	DMCF4HPS	4 mil Clear Polyester Film
OMNIJET NanoSolvent™ Premium Gloss Photo Paper - 255gsm	GFPHOTO 240	10 mil Photo Realistic Luster Paper
OMNIJET NanoSolvent™ Premium SatinPhoto Paper - 255gsm	GFPHOTO 240	10 mil Photo Realistic Luster Paper
OMNIJET NanoSolvent™ Premium Gloss Photo Paper - 200gsm	GFPHOTO	7 mil Photo Realistic Luster Paper
OMNIJET NanoSolvent™ Premium Satin Photo Paper - 200gsm	GFPHOTO	7 mil Photo Realistic Luster Paper
OMNIJET NanoSolvent™ PP Backlit Film - 230gsm	PPM7	8 mil Polypropylene Banner
OMNIJET NanoSolvent™ Silverback Banner - 250gsm	POSPRO+200	10.4 mil Block-out Film
OMNIJET NanoSolvent™ Silverback Banner - 385gsm	POSPRO+400	16.4 mil Block-out Film
OMNIJET Bright White Solvent Canvas - 335gsm	GFCVM	17 mil Poly/Canvas Acid-Free Matte Canvas - 345gsm
OMNIJET Natural White Solvent Canvas - 380gsm	GFCVM	17 mil Poly/Canvas Acid-Free Matte Canvas - 345gsm
OMNIJET Production Canvas - 385gsm	GFCVM	17 mil Poly/Canvas Acid-Free Matte Canvas - 345gsm

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MAGIC® TECHNICAL BULLETIN

Ink Fade on Ink Jet Banner Media

InteliCoat

Digital Imaging Substrates

Rapid image fade can occur on Magic® ink jet banner where certain OEM dye-based inks are used. Initial launch and product qualification of the banners included compatibility in both dye-based and pigment ink systems. Dye-based inks provide a higher color gamut, but ink fade can occur. Magic banner products were primarily designed for outdoor applications with pigment inks. However, the universal ink jet coating allowed the banner products to be printed with a variety of ink types and on a wide range of printer systems.

Magic banners continue to set the standard of the industry and are the superior banners used in the market today. InteliCoat continues to work on improving the ink fade phenomenon with the banner media. It is recommended to use pigment inks on all Magic banner media for longer lasting images.

PRINTERS & INK SETS

The fade phenomenon has been limited to the following ink sets:

*Hewlett-Packard 2500/3500 Dye-based inks

*Hewlett-Packard 5000 Dye-based inks

*Encad GS Dye-based inks

*Encad GX Dye-based inks

*Ilford Archiva inks

*Colorspan Endurachrome inks

BANNER MEDIA AFFECTED

*Mural Pro	*PPM7	*POLY PRO
*TB9	*DMPB10-C2S	*VSF
*DMPB10	*POS PRO+ 200	*DMVLA5
*DMVB15	*POS PRO+ 300	*DMiBOP10
*DMVB14	*DMCVLA3	

RECOMMENDATIONS

Use pigment inks to ensure stable images from light fade. If dye-based inks are used, allow print to thoroughly dry and over-laminate with a pressure-sensitive or liquid laminate. The ink fade is significantly reduced when over lamination is performed.

When printing on a HP5000 printer, do not uses the take-up roller. Due to the printer speed and ink chemistry, color shifts can occur when the print is not allowed to dry prior to rolling up. Ink co-solvents get trapped in the roll up resulting in uneven drying and color uniformity.

Refer to individual product application guides for specific information.

*Most updated version of this guide can be f

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Inkjet Canvas Printing and Finishing Checklist:
Tips for Printing and Finishing Your Next Inkjet Canvas Application

- Use the highest-quality print mode. Make sure your ICC profile reflects that print setting.

- Don't exceed the material manufacturer's recommended ink-saturation limit if you're using a water-resistant inkjet canvas that you plan to overpaint. The water-resistance of the inkjet-receptive coating is adversely affected if you exceed the recommended ink load.

- To avoid the appearance of fingerprints, wear white cotton gloves when handling your prints.

- Turn off the automatic cutter. Some printer blades may not be able to trim canvas media, especially if the blade is dull. To avoid problems, advance the inkjet canvas several inches and cut the print manually.

- Allow the print to dry completely before you handle or finish it. The amount of drying time required will depend on the type of ink you used, ink saturation, and the relative humidity and temperature of your studio.

- Follow the material supplier's recommendations for print finishing. InteliCoat recommends liquid laminates ("clearcoats") because laminating films may not always make complete contact with all of the high and low points on the weave of the material. Pretest liquid laminates before using them on your final print.

- Use a matte or luster clearcoat if your inkjet canvas print looks too glossy.

- Staples or tacks are commonly used to permanently attach all edges of the inkjet canvas to a rigid board or frame. Using glue or pressure-sensitive adhesives isn't recommended because the canvas material can shrink over time, causing the edges to curl or peel up from the surface. Shrinkage can also cause gaps in multi-panel canvas murals.

- It is best to stretch at 50%RH / 70°F + or -because the material is made of natural fibers that shrink and expand w/ moisture/ humidity. As an example: If a print is stretched in "dry" conditions, the material is contracted and tight. If it is later exposed to a humid environment, it will expand and may sag. At or about 50%

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RH, the inkjet canvas is in a neutral state and should only expand or contract slightly when exposed to more extreme conditions.

For more information on inkjet canvas options from InteliCoat, call 1-800-628-8604 or visit http://www.magicinkjet.com. You may also view a snapshot of our Inkjet Canvas Media and Applications webinar on the InteliCoatTech YouTube channel at http://www.youtube.com/watch?v=n2SDXLwmzwU.

Lamination of Ink Jet Films

Below are some guidelines to follow when laminating ink jet films. These guidelines will help limit laminate adhesive failure. They apply when using white, clear, backprint, or polycarbonate films. A specific technical bulletin on building a trade show graphic using polycarbonate and vinyl backer is also available. Visit our website for additional Product Application Guides and Technical Bulletins.

Encapsulate rather than apply a laminate to the front or back if at all possible. Encapsulation provides adhesive-to-adhesive bond and seals the graphic ensuring complete waterfastness. Overlamination tends to stress areas of the composit graphic depending on the various methods, and finishing techniques used. Also overlaminated prints are typically trimmed which does not provide a true seal.

Let the print dry for at least 4 hours before applying an overlaminate. It is very important to allow the inks to dry thoroughly. If the inks are not dry and the ink co-solvents are still present, the laminate adhesive will have difficulty adhering in those areas. The higher the relative humidity, the longer one should wait to laminate. In high humidity environments (70-80%+), waiting as long as 24 hours is recommended.

Allowing the laminate adhesive to "cure" after application and before being disturbed or stresses will result in a stronger laminated graphic. Adhesive strength typically improves over time, one hour minimum, overnight is better. Cold pressure-sensitive adhesives used in vinyl or polycarbonates require more of a set up time than heat-activated laminates.

Limit applied stress or tension during the actual application of the laminate through the laminator. Vinyl, polyester, and polycarbonate will try to relax after being stressed during application. Generally, heavier laminates apply more force on the associated layers.

If possible, design the graphic so a "non-image" border is present around the edges of the graphic. Laminates will bond more aggressively to the coating rather than the ink area. The higher the ink saturation on the edge of the print, the more likely for failure to occur in conjunction with other influences (like handling and environmental stresses). Pay attention to the recommended ink saturation levels for the media in use. Exceeding the saturation levels leaves the ink sitting on top of the coating rather than sinking into the coating. The ink that is left above the coating will not result in adequate laminate adhesion.

Be aware of shipping and handling stresses. Trim cutting a laminated print produces a large amount of localized stress on the edges. A heavy laminate, dull blade, and rough handling are some of the things that promote layer separation (with failure to occur over time once other forces come into play, rather than immediately). Rolling and unrolling a print for delivery and use promotes adhesion failure as well. This is common practice, but again, some methods are better than others. The tighter the wrap, the more the stress, the higher the chance for failure.

Environmental stress is probably the most variable, least recognized, and least controllable culprit that affects adhesion failure. In most cases, adhesion failure will occur over time and this is likely due to expansion and contration stresses that the composite undergoes from exposure to varying environmental conditions. Thinking about these beforehand may determine best practice to employ as the graphic is built - materials, methods, handing.

Understanding that there will always be a weakest link in any laminate graphic composit. It may occur at one of the following layers: (1) coating to substrate or bond coat layer, (2) Coating or ink to laminate adhesive layer. (3) within the coating layer itself, (4) within the adhesive itself. The key is to limit the type and level of stress that causes adhesive failure to begin . Once the failure begins, it will continue as more stress is applied in conjunctiion to the factors discussed here.

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Jet Set® Coated Matte Papers are high-quality coated matte papers designed for a wide range of CAD or POP applications. These bright white papers provide the broadest range of attainable colors. All the base papers were manufactured under an alkaline pulping process. Jet set media out-performs the alternatives on major CAD printers. Jet Set coated papers include JSO-24, JSO-24HR, and JSO-36.

JSO-24: A 24# matte paper is designed for most dye-based wide format printers. JSO-24 is considered the "standard of the industry" for consistency and superior color gamut for CAD, seismic plots, and POP displays.

JSO-24HR: A 24# matte paper with a universal coating designed for smaller dot size where super fine line resolution is required.

JSO-36: A 36# matte heavyweight paper with a universal coating designed to hold higher ink loads for full color CAD 3D modeling and POP displays.

JSO-WR: A 24# matte water resistant paper designed for use in CAD and full-color plots.

PHYSICAL PROPERTIES

Property	JSO-24	JSO-24HR	JSO-36	JSO-WR
Basis Weight	90 (24#)	90 (24#)	135 (36#)	90 (24#)
Caliper	4.5	4.7	6.4	4.6
% Opacity	91%	90%	90%	94%
Brightness	97	98	99	94
Whiteness	115	114	117	113
Acid Content (front & Back)	Slight alkaline	Slight alkaline	Slight alkaline	Slight alkaline

APPLICATIONS GUIDELINES

Printer and Ink Compatibility: Jet Set® coated matte papers can be used on most Hewlett-Packard DesignJet® and Canon iPF series printer systems equipped with dye-based inks.

Printer Settings: Image JSO-24 in "Coated Paper" mode. JSO-36 may be printed in the "Heavy Weight Coated" mode. The quality output will depend on application. Over-saturation will result in paper cockle and possibly head strike. Jet Set coated matte products work best in an environment between 18-30°C or 65-86°F, and between 20-80% RH. Longer ink dry times will occur at higher RH environments.

Material Handling: Store unused media in its original packaging. Images should be stored in an environment with 50% RH or less. Papers can absorb moisture in high humidity conditions making ink dry times longer or laminate adhesion difficult.

Product	HP650	HP450/750	HP500/800/1000	HP2000/3000	HP5000/5500	Canon iPF Series
JSO-24	*	*	*	*	*	*
JSO-24 HR	*	*	* *	*	*	*
JSO-36	*	*	*	*	*	*
JSO-WR	*	*	*	*	*	*

*Selection of higher print modes may have to be preformed to reduce banding.

FINISHING RECOMMENDATIONS

Lamination: Jet Set® coated papers can be overlaminated with most cold laminates and low temperature hot laminates, but cold is preferred to achieve better adhesion. Make sure the images are completely dry prior to laminating. Exceeding the recommended ink saturation level can affect laminate adhesion or make lamination difficult due to paper cockle. When the paper is overlaminated with heavy gauge laminates and either mounted to a board or encapsulated, overlap the image with a 0.25 inch safe edge of laminate. This will seal the paper, preventing moisture absorption and paper splitting from the undue stress of the heavy gauge laminating films. Use laminates of equal gauge when encapsulating to prevent image curl.

RECYCLING AND DISPOSAL

Disposal by recycling of ink jet media is the preferred method. Where recycle markets do not exist, disposal by landfill or an approved incinerator is acceptable. See Magic Recycle Bulletin @ www.magicinkjet.com.

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Kodak Cross Reference **WATERBASED** Products

We are pleased to offer the following chart that cross references Kodak Media with our comparable products

KODAK	MAGIC® COMPARABLE PRODUCT AND DESCRIPTION	
Matchprint M120DP	FIRENZE132	Coated matte paper 132gsm
Matchprint M150DP	TOTALPHOTO-M	Matte photorealistic paper 6.5 mil
Coated Matte Print Paper 90g	DMPG98	Coated matte paper 98gsm
Matchprint M96DP	DMPG98	Coated matte paper 98gsm
Water Resistant Removable Vinyl 6 mil	STICK2	Polypropylene with low tack PSA
GOWater Resistant PSA Vinyl	DMVLA5	Calendered vinyl PSA 5 mil
Water Resistant Poly Poster Matte 8 mil	PPM7	Matte polypropylene banner
Water Resistant Self-Adhesive Poly Poster Matte 9 mil	PPM7-PSA	Matte polypropylene banner with PSA
Production Removable Satin Vinyl 6mil	STICK2	Polypropylene with low tack PSA
Self-Adhesive Matte Poly Poster	DMPLA7 OR PPM7PSA	Low glare photobase or polypropylene PSA
Rapid Dry Gloss	SIENA 200G	Gloss photobase paper
Rapid Dry Satin	SIENA 200L	Luster photobase paper
Reverse Print Backlit Film 6 mil	DMBP5	Back print film 5.8 milSiena 200G PSA
Universal Backlit Film 8 mil	SBL7	Polyester backlit film 7 mil
Production Self-Adhesive Glossy Poly Poster Plus 6 mil	SIENA 200G PSA	Glossy photobase with PSA
Self-Adhesive Glossy Poly Poster	SIENA 200G PSA	Glossy photobase with PSA
Universal Self-Adhesive Satin Poly Poster 7 mil	SIENA 200L PSA	Luster photobase with PSA
Universal Self-Adhesive Glossy Poly Poster 7 mil	SIENA 200G PSA	Glossy photobase with PSA

LA WAREHOUSE PRODUCT AVAILABILITY LISTING

Part Number	Size	Units/Ctn	Core
FIRENZE132	**132 GRAM MATTE PRESENTATION PAPER (PG132)**		
66913	36" x 100FT	1	2" Core
66915	44" X 100FT	1	2" Core
FIRENZE170	**170 GRAM MATTE PRESENTATION PAPER (PG170)**		
73385	24" X 100FT	1, 2 Min	2" Core
73386	36" X 100FT	1	2" Core
73387	42" X 100FT	1	2" Core
SIENA200-L	**8 MIL LUSTRE UNIVERSAL PHOTOBASE (PDQU-L)**		
64070	24" X 100FT	1	Universal Core
64071	36" X 100FT	1	Universal Core
64072	42" X 100FT	1	Universal Core
64073	44" X 100FT	1	Universal Core
64074	50" X 100FT	1	Universal Core
SIENA200-G	**8 MIL GLOSSY UNIVERSAL PHOTOBASE PAPER (PDQU-G)**		
64077	24" X 100FT	1	Universal Core
64078	36" X 100FT	1	Universal Core
64081	50" X 100FT	1	Universal Core
64083	60" X 100FT	1	Universal Core
SIENA200-L PSA	**8 MIL LUSTRE ADHESIVE BACK PHOTOBASE**		
69785	60" X 50FT	1	Universal Core
DMPLA7	**7 MIL LOW GLARE PSA PHOTOBASE PAPER**		
37176	50" X 50FT	1	Universal Core
37178	60" X 50FT	1	Universal Core
DMPHA7	**7 MIL HIGH GLOSS PSA PHOTOBASE PAPER**		
67304	42" X 100FT	1	Universal Core
37173	60" X 50FT	1	Universal Core

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DMCF4HPS	4 MIL CLEAR FILM FOR THE HP 500/800/5000		
46377	14" X 75FT	1	2" Core
45956	36" X 75FT	1	2" Core
45958	42" X 75FT	1	2" Core
DMVLA5	**5 MIL PERMANENT PSA MATTE CAL VINYL**		
44175	36" X 75FT	1	Universal Core
STICK-2	**7 MIL REPOSITIONABLE MATTE POLYPROPYLENE**		
70813	36" X 100FT	1	Universal Core
70815	50" X 100FT	1	Universal Core
POSPRO+200	**UNIVERSAL BLOCK OUT POP UP BANNER**		
68813	36" X 100FT	1	Universal Core
PPM7	**7 MIL MATTE POLYPROPYLENE BANNER**		
44836	36" X 100FT	1	Universal Core
45836	50" X 100FT	1	Universal Core
DMVB14	**14 MIL ONE SIDED SCRIM BANNER VINYL**		
46545	36" X 75FT	1	Universal Core
46546	42" X 50FT	1	Universal Core
VSF	**12 MIL VALERON STRENGTH FILM BANNER**		
65023	24" X 50FT	1, 2 Min	Universal Core
64217	54" X 75FT	1	Universal Core
GFIOP140	**140 GRAM WET STRENGTH POSTER PAPER**		
44422	60" X 500FT	1	Universal Core
GFIOP212	**212 GRAM WET STRENGTH POSTER PAPER**		
67106	54" X 150FT	1	Universal Core
GFCVM	**17 MIL MATTE CANVAS**		
66029	54" X 75FT	1	Universal Core
66030	60" X 75FT	1	Universal Core

LA WAREHOUSE PRODUCT AVAILABILITY LISTING

Confirmation of will call must go through your InteliCoat Customer Service Representative. Address for pickup below.

COAST WAREHOUSE COMPANY
3401 ETIWANDA AVENUE
BUILDING 711
MIRA LOMA, CA 91752

Alaska

WA

MT

OR

ID

WY

NV

UT

CO

CA

AZ

NM

Hawaii
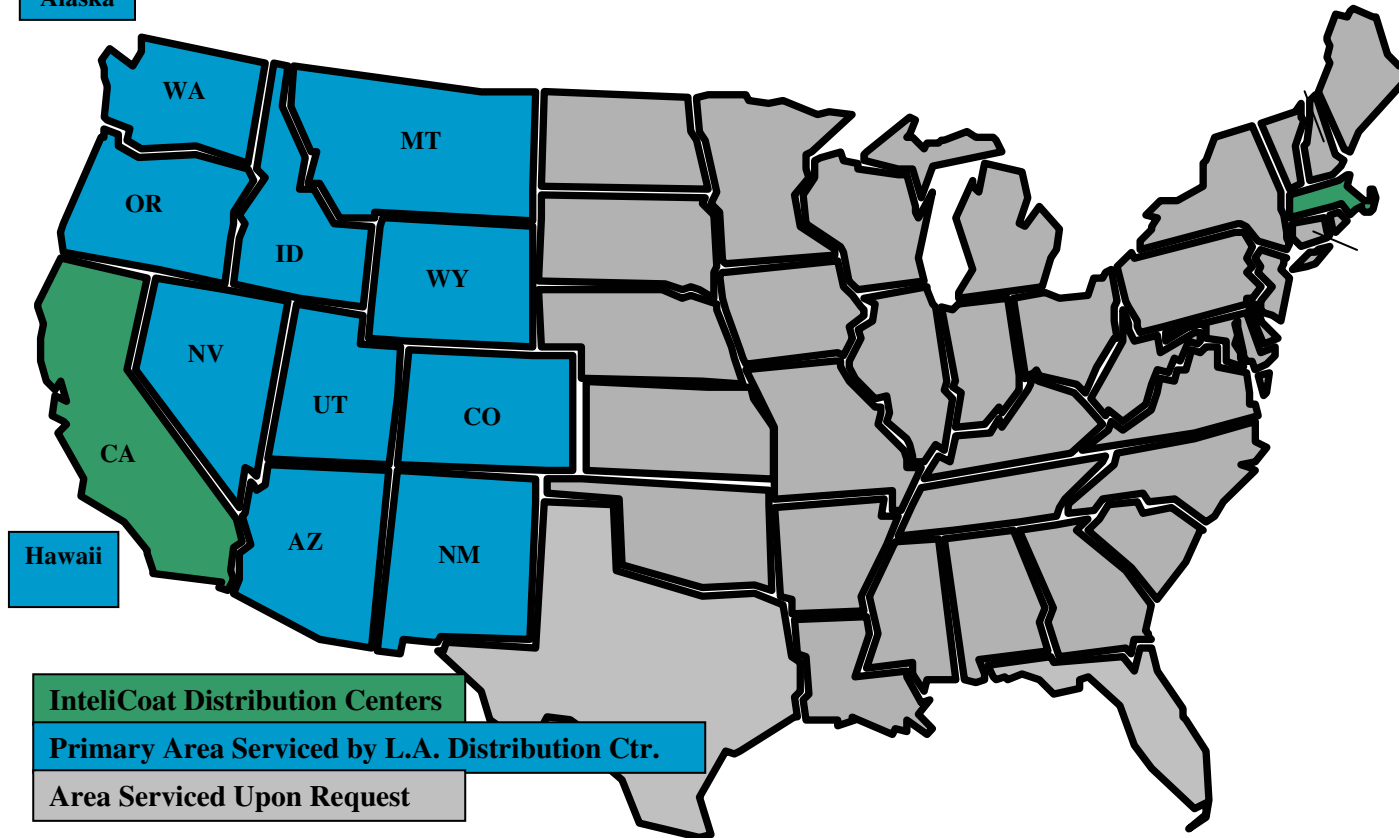
InteliCoat Distribution Centers

Primary Area Serviced by L.A. Distribution Ctr.

Area Serviced Upon Request

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LAMINATION TIPS & TRICKS

Laminating is a skill that takes practice. When laminating, use the following tips and tricks for best results. These tips should help you properly finish your prints.

TEST YOUR APPLICATION:
- It is always best to pre-test your application prior to performing the actual job. Discover the strengths and weaknesses of your system before it gets into the customer's hands.

- Decide what type of laminate will be best suited for your application: heat-activated, pressure-sensitive, or liquid laminate. Pressure-sensitive laminates offer a more aggressive bond and are compatible with a wide range on imaging media.
- For increased durability, choose a laminate with UV protection and encapsulate with a 1/4-1/2 inch border around the edges of print to prevent moisture and other airborne pollutants from reaching the image. A UV laminate can extend the product life by
3-4 times. Dye inks, even if laminated, will fade significantly faster than pigment inks. Use pigment inks for longer lasting images.
- Match the over laminate to the product. Vinyl to vinyl, polyester to polyester.

FOLLOW MANUFACTURER'S INSTRUCTIONS FOR LAMINATE:
- Obtain a technical data sheet of the particular laminate you are using from the manufacturer website.

- Check your laminator to be sure that the proper temperatures, tensions, and pressures can be achieved and used.

- Different laminator has different capabilities. Temperature set points may have to be set higher than recommended temperatures due to laminator heating coil age, or the size of the rollers.
- Cloudy lamination is a result of insufficient heat. If there are bubbles in the laminate, this could be a result of too high of heat or the image is not completely dry.

- Silvering is caused by the adhesive not wetting out. This can be solved by either increasing the temperature or slowing down the speed. Sometimes you need to do both. This will promote better adhesive flow out. Adding low heat when using pressure-sensitive also helps to wet out the adhesive.

- Over laminating one side with too much tension can cause the product to curl toward the laminated side and the edges to lift.

IMAGE PREPARATION:
- It is recommended to leave some unprinted media leader in front of your printed media for lamination. The leader will provide you the opportunity to check for wrinkles or any laminator hiccups prior to laminating your actual print job.

- Make sure the image is completely dry prior to over laminating. It is recommended to wait at least 4 hours prior to over laminating. Waiting 24 hours is optimum. Even though the inks are dry to the touch, the co-solvents (Glycol) from the inks may be pre-sent. Glycol is used in inks to prevent clogging of the ink nozzles. High gloss media is more difficult to laminate because the ink tends to sit on top of the coating. Matte coated products absorb moisture and the ink so they are easier to laminate.

- Do not exceed the recommended ink saturation limits for the media you are using. Higher ink lay downs have an adverse effect on laminate adhesion. Lower the ink density, the better the laminate adhesion.

- Store your prints in an area that is free of dust and debris. If debris is attracted to the imaged surface, dirt particles can be trapped and show up as "bubbles" in your finished laminated graphic. An unclean laminating environment is the worst enemy of any successful finishing job.

- Wipe the print with a lint-free, soft cotton cloth prior to over laminating. This helps remove materials in the inks which migrate to the surface of the print which inhibit good adhesion. The longer you wait after the printing, the more effective the wiping will be.

TRIMMING LAMINATED GRAPHICS:
- After laminating, wait at least an hour before trimming. Laminate/media bond will strengthen over time and many laminate manufacturers recommend waiting as long as possible before trimming.

- When possible, leave an unprinted border when trimming. Laminate bond to unprinted media is very good, so when the job permits, leave a white border.

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LexJet Cross Reference **WATERBASED** Products

We are pleased to offer the following chart that cross references LexJet Media with our comparable products

LEXJET	MAGIC® COMPARABLE PRODUCT AND DESCRIPTION	
Sunset Hot Press Rag 310g	VERONA300RAG	High Definition Rag Paper 300gsm
Sunset Textured Fine Art Paper 310g	VERONA285T	Textured Fine Art Paper 285gsm
Sunset Select Gloss Canvas	TORINO 21G	Poly/Coton Blend Inkjet Canvas
7 mil Ultra Photo Gloss	SIENA200G	Photorealistic Paper
7 mil Universal Fine Photo Satin Plus	SIENA200L	Photorealistic Paper
7 mil Absolute™ Backlit	SBL-7	Universal Polyester Backlit Filme 7 mil
TOUGHcoat™ 3R DuPont™ Tyvek®	TB-9	Tyvek, outdoor/indoor banner 9 mil
TOUGHcoat™ Blockout Scrim Banner	DMVB14	Indoor/Outdoor Scrim Banner 14.6 mil
TOUGHcoat™ ThriftyBanner	DMVB15	Indoor/Outdoor Scrim Banner 15.5 mil
TOUGHcoat™ Water Resistant Self-Adhesive Polypropylene	PPM7PSA	Polypropylene banner withpressure-sensitive adhesive
TOUGHcoat™ Water-Resistent Polypropylene	PPM7	Water Resistant durable Polpropylene banner 7 mil
Sunset Photo Semi-Matte	SIENA250L	Photorealistic Paper 250gsm
Sunset Reserve Matte Canvas	TORINO 17M	Cotton/Poly Inkjet Canvas 17 mil
Window & Wall Decor	STICK2	Polypropylene with a Low-tack PSA
8 mil Image Pro Gloss	MUG7	Resin-coated Photobase 7 mil

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LexJet Cross Reference **SOLVENT** Products

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LEXJET	MAGIC® COMPARABLE PRODUCT AND DESCRIPTION	
Premium Solvent Backlit Matte (9 Mil)	SBL7	Polyester Backlit Film 7 mil
18 Mil Solvent Display Film SR	POSPRO+400	Block-out Polyester Film 16.5 mil
12 Mil Solvent Display Film SR	POSPRO+200	Block-out Polyester Film 10.4 mil
Matte Light Block Polyester (12 Mil)	POSPRO+200	Block-out Polyester Film 10.4 mil
Matte Light Block Polyester (7 Mil)	PPM7	Polypropylene Banner 7 mil
Premium Matte Polyester SUV	PPM7	Polypropylene Banner 7 mil
Velvet WallPro™ SUV	MURALPRO/DMBIOP10	Latex-based Wall Covering 11 mil
Prime Gloss SUV	GFPHOTO240	Photo-realistic Paper 10 mil
Simple 6 Mil Removable PSA Vinyl (SUV)	STICK2	Polypropylene Banner w/ a low-tack PSA
Sunset Select Satin Canvas SUV	GFCVM	Poly/Cotton Blend Artist Stretch Canvas 17 mil
3R DuPont™ Tyvek® SUV	TB9	Tyvek, outdoor/indoor banner, tear resistent 9 mil

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Magic® INKS!

Indoor Accelerated Fade Testing Results

Roland Inks MuralPro	1 Year
Delta E	
Black	0.83
Cyan	2.05
Magenta	4.07
Yellow	2.23
Red	2.88
Green	1.34
Blue	3.60

Magic Inks MuralPro	1 Year
Delta E	
Black	0.71
Cyan	2.04
Magenta	3.70
Yellow	1.49
Red	1.27
Green	1.15
Blue	3.42

Canon Inks Siena250G	1 Year
Delta E	
Black	0.48
Cyan	1.19
Magenta	2.49
Yellow	2.07
Red	0.56
Green	1.79
Blue	4.02

Magic Inks Siena250G	1 Year
Delta E	
Black	0.57
Cyan	1.54
Magenta	2.73
Yellow	2.38
Red	0.61
Green	1.80
Blue	1.19

Gamut

- Roland Inks MuralPro = 167K
- Magic Inks MuralPro = 172K
- Canon Inks Siena250G = 404K
- Magic Inks Siena250G = 406K

Mean Color Density

	Roland Inks MuralPro	Magic Inks MuralPro	Canon Inks Siena250G	Magic Inks Siena250G
Black	1.16	1.17	2.52	2.48
Cyan	1.11	1.12	1.02	1.05
Magenta	0.91	0.93	0.93	0.93
Yellow	0.66	0.67	0.93	0.95
Red	0.95	0.98	1.45	1.46
Green	0.97	0.98	1.15	1.15
Blue	1.09	1.10	1.54	1.53

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ACCELERATED OUTDOOR FADE TESTING

OEM vs. Branded Inks

1yr Delta E - OEM vs. Magic Ink
1 yr Outdoor Accelerated Fade in CPS+ Fadeometer
Mural Pro w/ Roland XC540 Eco & Branded Inks

Density
Outdoor Accelerated Fade Test
Mural Pro w/ Roland XC540 Eco v. Magic Inks

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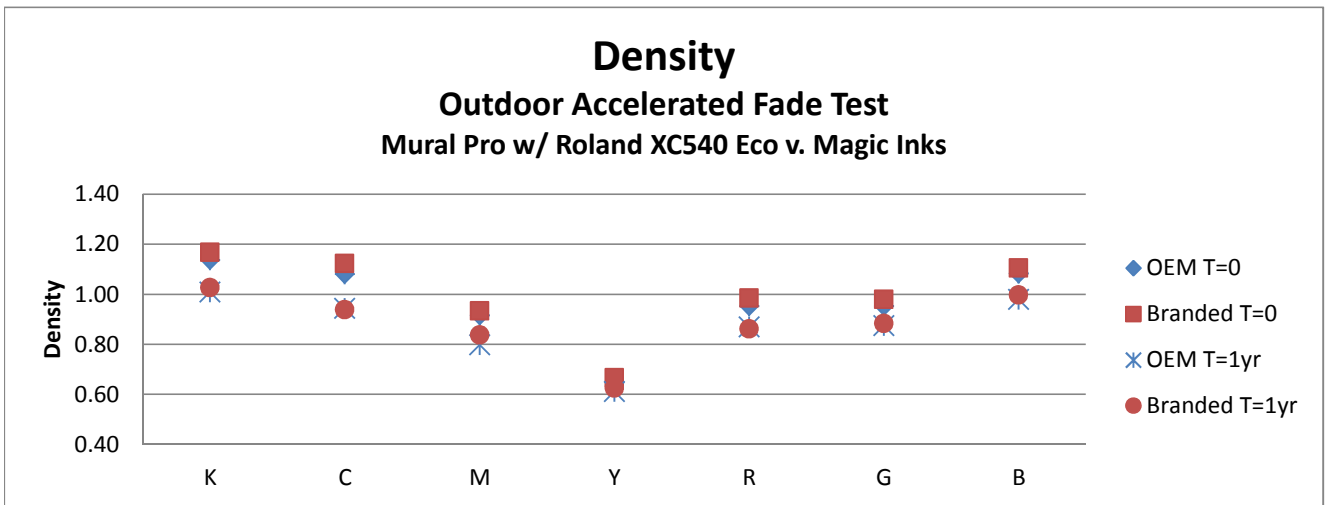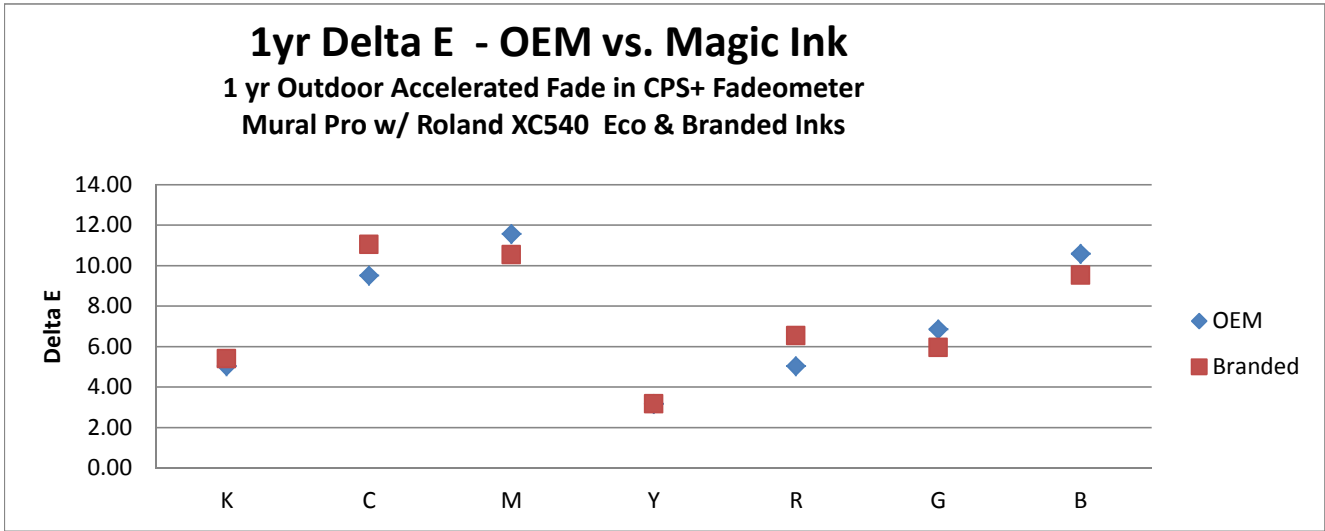
SOLVENT, ECO SOLVENT LATEX AND UV CURE COMPATIBILITY CHART

Magic®

Product	matte	satin/low glare/luster	gloss	ROLAND — VersaCamm: SP, VP or VS series; SolJet Pro II & III SC, XC, SJ, XJ or AJ series — Magic®, Eco-Solvent MAX, EcoXtreme or EcoXtreme LT	EPSON — GS6000, SureColor — Magic®, Ultrachrome GS, GSX	HP — DesignJet: 8000s, 9000s, 10000s — Magic®, HP Low Solvent Pigment	SEIKO — ColorPainter 64s, 100s — Magic®, Low-Solvent	MIMAKI — JV3, JV33 Or JV5 — Magic®, MS2, SS2, ES3, SS21, ES3 HS or ES3	MUTOH — ValueJet, Toucan LT, Falcon, Outdoor Jr — Magic®, Eco-Ultra	HP LATEX — L25500, L26500, L28500 — Magic®, Latex	GRAND FORMAT & UV CURE — Vutek, NUR, Scitex, ColorSpan, Gandi — Solvent	UV Cure
DMiBOP10 wet strength	•			•	•	•	•	•		•	•	•
ECO BLOCK C2S two side blockout		•								•	•	•
ECO SATIN poster		•		•	•	•	•	•	•	•	•	•
GFIOP140 or GFIOP212 wet strength		•					•	•		•	•	•
GFPHOTO or GFPHOTO240 photobase			•	•	•	•	•	•	•	•	•	•
PCW MATTE 100% post consumer waste	•			•	•	•	•	•	•	•	•	•
PEBBLE textured vinyl	•			•	•	•	•	•	•	•	•	•
PHOTO ART 230 matte	•			•	•	•	•	•	•	•	•	•
POSTERMAX wet strength		•		•	•	•	•	•	•		•	
SLEEK prepasted	•	•						•		•	•	
TOTAL PHOTO M photo realistic	•			•	•	•	•	•	•	•	•	•
WEAVE textured vinyl	•			•	•	•	•	•	•	•	•	
GFPOLY polypropylene			•	•	•	•	•	•	•	•	•	•
PPM7 polypropylene	•			•	•	•	•	•	•	•	•	•
PPM7UV polypropylene	•											•
TB9 tyvek	•			•	•	•	•	•	•	•	•	•
BROAD VUE perforated vinyl	•			•	•	•	•	•	•	•	•	
NEW VUE perforated vinyl	•			•	•	•	•	•	•		•	
POSPRO +200 rigid retractable	•			•	•	•	•	•	•		•	•
POSPRO +400 rigid pop-up	•			•	•	•	•	•	•		•	•
POSPRO +ECO rigid retractable	•			•	•	•	•	•	•	•	•	
POSPRO +LX rigid retractable	•									•		
POSPRO +UV rigid retractable		•										•
SBL-7 polyester backlight	•			•	•	•	•	•	•	•	•	
SCF7 polyester clear			•	•	•	•	•	•	•	•	•	
ECOSATIN PSA poster		•		•	•	•	•	•	•		•	
PPM7 PSA polypropylene	•			•	•	•	•	•	•		•	
RITETAC UV dry erase psa film		•										•
STICK 2 PSA polypropylene	•			•	•	•	•	•	•		•	
GFCVM poly cotton canvas	•			•	•	•	•	•	•	•	•	•
FAB6 polyester fabric		•		•	•	•	•	•	•	•	•	
POLYSATIN polyester canvas		•		•	•	•						

2.15

PAPERS   **BANNERS**   **FILMS**   **PSA**   **TEXTILE & CANVAS**

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Magic® AQUEOUS COMPATIBILITY CHART

Product	FINISH – matte	satin/low glare/luster	gloss	EPSON 7000 & 9000 Series – DYE	EPSON 10000 Series – Photographic Dye	EPSON X000/x600/X800/x880/X890/x900 Series – Ultrachrome, Ultrachrome K3, Archival	HP 2000/3000/5000/5500 Series – DYE	HP 5000/5500 Series – UV PIGMENT	HP 500/800 650/750 1000/4000 (Dye:CMY Pig;K) – DYE:CMY, PIGMENT:K	HP Z Series – Vivera Pigment	CANON W7X00D/W8X00D Series – DYE	CANON W7X00/W8X00 Series – PIGMENT	CANON IPF Series – LUCIA	CANON IPF Series – MAGIC®	KODAK/ENCAD All Encad And Kodak – DYE	KODAK/ENCAD – PIGMENT	COLOR SPAN DisplayMaker DisplayWinder – DYE	COLOR SPAN – PIGMENT	MISC. PIEZO Mutoh/Mimaki/Agfa/PrizmaJet/Roland – DYE	MISC. PIEZO – PIGMENT
DMiBOP10 / Mural Pro wet strength	●			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
DMPG98 presentation	●			●	●	●	●	●	●	●	●	●	●	●	●	●			●	●
DMPS150 photorealistic		●		●	●				●						●				●	
FIRENZE 132 or FIRENZE 170 presentation	●			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
MUG7 photobase			●	●	●				●						●					
MUL7 photobase		●		●	●				●						●					
PCW MATTE 100% post consumer waste	●			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
SIENA 250 G photobase			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
SIENA 250 L photobase		●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
SIENA 200 G photobase			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
SIENA 200 L photobase		●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
TOTAL PHOTO M photorealistic	●			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
VERONA 250HD 100% cotton	●			●	●	●					●	●	●	●	●	●	●	●	●	●
VERONA 285T 100% cotton	●			●	●	●					●	●	●	●	●	●	●	●	●	●
VERONA 300RAG 100% cotton	●			●	●	●					●	●	●	●	●	●	●	●	●	●
DMVB14 scrim vinyl	●			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
DMVB15 scrim vinyl	●			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
PPM7 polypropylene	●			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
TB9 tyvek	●			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
DMBP5 polyester backprint	●			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
DMCF4EN polyester clear w/interleaf			●												●	●				
DMCF4HPS polyester clear w/ edge stripe			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
POSPRO + 200 rigid/retractable	●			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
POSPRO + 400 rigid /pop-up	●			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
SBL7 polyester backlit	●			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
DMPHA7 photobase psa			●	●	●				●						●					
DMPLA7 photobase psa		●		●	●				●						●					
DMVLA5 vinyl	●			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
PPM7PSA polypropylene psa	●			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
SIENA 200L PSA photobase psa		●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
STICK2 polypropylene psa	●			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
FAB6 polyester fabric		●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
TORINO 17M poly cotton canvas	●			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
TORINO 20M 100% canvas	●			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
TORINO 21G poly cotton canvas		●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

Legend: ■ PAPERS ■ BANNERS ■ FILMS ■ PSA ■ TEXTILES & CANVAS ■ WALL COVERING

2.15

Magic® Inks

WARRANTY REGISTRATION GUIDE

END USER:
Company: _____
Contact: _____
Address: _____
_____
Phone Number(s): _____
Email: _____
Printer Make: _____
Printer Model: _____

Printer Serial Number: _____
Age of Printer: _____
Head Id Number: _____

INSTALLING DISTRIBUTOR:
Company: _____
Contact: _____
Address: _____
_____
Technician: _____
Phone Number(s): _____
Email: _____
Date of
Installation:_____

INSTALLATION CHECK LIST:
___Pre-conversion nozzle check patterns printed
___Post-conversion nozzle check patterns and test prints printed and checked by technician and end user
___One set of nozzle pre-conversion check patterns, post conversion check patterns, and other test prints, and original copy of this form sent to InteliCoat Technologies
___One set of nozzle pre-conversion check patterns, post conversion check patterns, and other test prints, and a copy of this form retained by end user
___One set of nozzle pre-conversion check patterns, post conversion check patterns, and other test prints, and a copy of this form retained by distributor

Were there any print quality issues prior to conversion? Yes/No

Were there any print quality issues after the conversion? Yes/No

If there were any issues during the process please describe:
_____
_____
_____
_____

Please refer to master warranty agreement for all questions and details for warranty coverage. Warranty is not in place until all information has been received and approved by Coveris Advanced Coatings.

I have received a copy, read, understand, and agree to the terms and conditions listed in the Limited Warranty Registration and Installation Acknowledgement.

End User Signature and Date:
_____
_____

Authorized Technician Signature and Date:
_____
_____

COATED MATTE PRESENTATION PAPERS

MAGICLEE® and MAGIC® brands feature a range of quality coated matte presentation papers designed specifically to provide impressive performance-to-cost value for graphic art and prepress applications. Each of the five options, ranging from lightweight to heavyweight, offers high opacity, bright white appearance, and optimal color gamut. Full-color images print crisp and clean, even with ink saturation levels up to 200%. Our coated matte presentation papers are compatible with water based, pigment or dye inks. Our latex-saturated GFIOP's are compatible with true solvent, UV cure and latex systems. Our GFIOP's are not recommended for low solvent printers. We developed our Postermax product specifically for low-solvent inks. Though GFIOP's will print on low solvent they will NOT print at a fast enough speed or good enough quality to meet our customer base expectation. All of our presentation papers below feature fast dry times and ease in lamination. Our presentation papers are the best choice for high volume production applications.

PHYSICALS

	DMPG98	Firenze 132 (DMPG132)	Firenze 170 (DMPG170)	GFIOP140	GFIOP212	POSTER MAX
Basis Weight, g/m^2	98	132	170	140	212	235
Basis Weight, oz/yd^2	4.6	6.7	8.0	4.1	9.9	10
Basis Weight, lbs	24	36	45	37	57	62
% Opacity	92	98	99	95	95	99
Brightness	91	95	95	89	89	92
Whiteness	119	111	123	81	83	104
Recycle code	paper	paper	paper	n/a	n/a	n/a

*Firenze 132 and Firenze 170 are pH neutral

APPLICATIONS GUIDELINES

	Water Based dye & pigment	Solvent pigment	Low Solvent pigment
DMPG98	X		
DMPG132 / Firenze 132	X		
DMPG170 / Firenze 170	X		
GFIOP140		X	
GFIOP212		X	
POSTERMAX		X	X

Printer Settings: Ink saturation limits can vary due to ink types, ink drop volume and humidity, so ink saturation levels should be optimized for specific printer, ink and software combinations. Over saturation will result in paper cockle and possibly head strike. These presentation papers work best in an environment between 65-86°F and 30-70%RH. Longer ink dry times will occur in higher RH conditions.

Material Handling: Store unused media in its original packaging. Images should be stored in an environment with 50% RH or less. Papers can absorb moisture in high humidity conditions making ink dry times longer or can interfere with proper laminate adhesion.

Color Profiles: Color profiles can be obtained for a selected RIP, ink, and printer combination on the magicinkjet.com web site.

FINISHING RECOMMENDATIONS

Lamination: The coated matte presentation papers can be over laminated with most cold laminates and low temperature hot laminates but cold are preferred and give better adhesion results. Make sure the images are completely dry prior to laminating. Exceeding the recommended ink saturation level can affect laminate adhesion or make lamination difficult due to paper cockle. When the paper is over laminated with heavy gauge laminates and either mounted to a board or encapsulated, overlap the image with a 0.25" safe edge of laminate. This will seal the paper, preventing moisture absorption and paper splitting from the undue stress of the heavy gauge laminating films. Use laminates of equal gauge when encapsulating to prevent image curl.

Mounting: Cold, pressure- sensitive adhesives typically provide the most aggressive bonds and are recommended for use with these products.

RECYCLING AND DISPOSAL

Disposal by recycling of ink jet media is the preferred method. Where recycle markets do not exist, disposal by landfill or an approved incinerator is acceptable. See Magic Recycle Bulletin @ www.magicinkjet.com

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Magic®

Mounting Canvas onto a Stretcher Frame

Below are some guidelines to follow when mounting stretch canvas onto a stretcher frame. These guidelines will help limit image scratching, edge curl, and edge cracking. Visit our website for product application guides and additional bulletins. www.magiclee.net

* After printing, images should be allowed to dry before handling. Apply surface treatment prior to stretching. When applying finish, apply light prime coat and let dry. Final finish coating may then be applied.

* Canvas should be allowed to rest in room temperature for several hours before stretching. Canvas should not be stretched in temperatures below 65˚F as canvas would be more susceptible to cracking in cold environments. The ideal environment is 50%RH/70˚F. A suitable work space for stretching would be a felt-lined work table.

* Stretcher bars with rounded edges are recommended over sharp edge stretcher bars.

* Heavier canvases are designed for automated wraps and gallery wraps.

* Check the squareness of the frame by measuring across the diagonal corners so that both are equal. Cross brace if needed. Crossbracing is suggested for standard stretch frames 24" x 36" and larger.

* Cut canvas 4" longer on all four sides than the assembled stretcher frame. Leaving excess canvas around the frame will allow for possible future remounting.

* The use of staples, rather than tacks, is suggested for easier canvas mounting. Secure staples flush with the wood and at a slight angle to the edge of the stretcher bar.

* Secured canvas should be snug but not overstretched across the stretcher frame. To help prevent corner tears use less tension on matte canvas than on glossy canvas.

* Secure first side by driving 3 staples in the center of the stretcher bar, starting at the center, then driving a staple on both sides of the initial staple. Space staples 1 1/2" to 2" apart. Rotate frame to opposite side while being careful not to drag canvas across the work table. Grasp the canvas edge in the center with Stretching Pliers and pull taut. Secure with 3 staples in the center as with the first side. Rotate canvas to adjacent unattached side and repeat process. On the fourth side, repeat process by securing the center with 3 staples. Moving from the center outwards, alternately add 2 additional staples to each side of the first staples. Rotate frame to opposite side and repeat process until all edges are secured.

* Double fold canvas at corners, so that final fold lines up with edge and staple through folded canvas on the back of the frame. Fold the excess canvas to the back of the frame and staple. To reduce canvas bulk at the corners of the stretcher frame, consider using wedge corner cuts.

* Stretched canvas should be stored in the vertical position. Avoid leaning canvas prints against one another. If one stretched canvas must lean against another, place glassine paper or craft paper between canvases.

B.C.I. IMAGING

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MUG-7 & MUL-7

INK JET RESIN-COATED PHOTOBASE PAPER

MAGIC® MUG-7 and MUL-7 are respectively, high gloss and low glare photobase papers with a coating that is universally compatible with most dye based thermal ink jet printers. MUG-7 (Magic Universal Glossy) and MUL-7 (Magic Universal Luster) papers are the perfect choice for high quality photo finish images printed on most Hewlett-Packard, Canon, and other dye ink comptible printers. The high gloss surface of the MUG-7 and the luster surface of the MUL-7 provide for optimum viewing in any lighting environment.

PHYSICAL PROPERTIES

	MUG-7 Glossy	MUL-7 Luster
Gloss (60^0)	72	35
% Opacity	91	91
Whiteness	105	105
Caliper of photobase	6.5 mil	6.5 mil
Basis Weight	170 g/m^2	170 g/m^2
Optimum Printing Environment	70^{0}F (30-70%RH)	70^{0}F (30-70%RH)
Recommended Printing Devices	printers with dye ink compatibility	

APPLICATION GUIDELINES

Indoor Use: This product is recommended for indoor applications only.

Surface Protection: Dirt and stains can not be cleaned from the imaged surface and the product can be damaged from excessive folding or creasing. Laminating is recommended to protect the surface.

Printing: Material may be printed on most dye ink wide format printers. The recommended printing devices for these materials are Hewlett-Packard Design Jet 650, 750 and the 1000, 2000,3000, and 5000 series printers, Canon 8400D and other dye ink compatible printers. Due to the pigment black ink in the HP650, 700 and 1000 series, the black ink may remain slightly tacky or smear when rubbed. Ink coverage of up to 300% is recommended. To optimize print quality, printers should be set for highest print quality and media selection should be "Photopaper".

Material Handling & Storage: Folding of the material in not recommended. Unimaged material should be stored at 72º F (+/-5º). After use, the roll should be stored in its original packaging.

FINISHING RECOMMENDATIONS

Laminating: To give added surface protection from dirt and abrasion, a pressure-sensitive overlaminate or heat-acti-vated laminate is recommended. Overlaminating one side may cause the product to curl towards the laminated side. When encapsulating the material, use minimal tensions to prevent curl or paper stress. An overlaminate safe edge of 1/8" is recommended to seal the paper from environmental effects. Refer to the "Lamination Tip & Trick s " technical bulletin on the magicinkjet.com web site.

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PHOTOBASE PAPERS
Magic® MUG-7 & MUL-7
High-Gloss, Resin-Coated Photobase Paper &
Luster, Resin-Coated Photobase Paper

Making all Great Images Count

www.magicinkjet.com

MARKET APPLICATIONS

- Photo Reproduction
- Signage
- Posters
- POP Displays

PRODUCT DESCRIPTION

MUG-7
- 7mil, resin-coated photobase paper
- Economical
- High-gloss surface, bright white
- Dye ink compatible

MUL-7
- 7 mil, resin-coated photobase paper
- Economical
- Luster surface, bright white
- Dye ink compatible

GENERAL AVAILABILITY

MUG-7	Part #
36" x 100'	38871
42" x 100'	43031
50" x 100'	38872

MUL-7	**Part #**
36" x 100'	38866
42" x 100'	43030
50" x 100'	38867
54" x 100'	38868
60" x 100'	38869

FEATURES & BENEFITS

MUG-7
- Economical resin-coated photobase paper
- One SKU for most dye-based thermal inkjet printers
- Printer compatibility with dye inks

MUL-7
- Economical, resin-coated photobase paper
- Printer compatibility with dye inks
- One SKU for most dye-based thermal inkjet printers

MEDIA COMPATIBILITY

Designed to offer exceptional print performance on Hewlett-Packard, Encad, and ColorSpan dye base thermal inkjet printers.

* For complete Magic® product set, refer to Magic Printer Compatibility Chart under Technical Support on www.magicinkjet.com.

* For additional product details – including printer settings and lamination guidelines – see Application Guide under Tech Support of www.magicinkjet.com

* For ICC profile availability, see www.magicinkjet.com

Phone:	1-800-628-8604
Fax:	1-800-861-4128

Disclaimer: Information presented in this product sellsheet is intended to offer a useful reference in selecting media for your output. No media warranties are implied unless specifically mentioned. Printer and / or ink changes may affect results. The most current product information may be found at www.magicinkjet.com.

Date: December 2010

InteliCoat Technologies®

www.bciimage.com
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B.C.I. IMAGING

MAGIC® PRODUCTS APPLICATION GUIDE

MUG-7 & MUL-7

INK JET RESIN-COATED PHOTOBASE PAPER

InteliCoat

Magic
Digital Imaging
Substrates

MAGIC® MUG-7 and MUL-7 are respectively, high gloss and low glare photobase papers with a coating that is universally compatible with most dye based thermal ink jet printers.   MUG-7 (Magic Universal Glossy) and MUL-7 (Magic Universal Luster) papers are the perfect choice for high quality photo finish images printed on most Hewlett-Packard, Canon, and other dye ink comptible printers. The high gloss surface of the MUG-7 and the luster surface of the MUL-7 provide for optimum viewing in any lighting environment.

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Optimum Printing Environment	70ºF (30-70%RH)	70ºF (30-70%RH)
Recommended Printing Devices	printers with dye ink compatibility	

APPLICATION GUIDELINES

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Surface Protection: Dirt and stains can not be cleaned from the imaged surface and the product can be damaged from excessive folding or creasing. Laminating is recommended to protect the surface.

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Material Handling & Storage: Folding of the material in not recommended. Unimaged material should be stored at 72° F (+/-5°). After use, the roll should be stored in its original packaging.

FINISHING RECOMMENDATIONS

Laminating: To give added surface protection from dirt and abrasion, a pressure-sensitive overlaminate or heat-activated laminate is recommended. Overlaminating one side may cause the product to curl towards the laminated side. When encapsulating the material, use minimal tensions to prevent curl or paper stress. An overlaminate safe edge of 1/8" is recommended to seal the paper from environmental effects. Refer to the "Lamination Tip & Tricks" technical bulletin on the magicinkjet.com web site.

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InteliCoat *Technologies*

For more information, call 1-800-628-86040
or visit our website: www.magicinkjet.com
*Most updated version of this guide can be obt

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PHOTOBASE PAPERS
Magic® MUG-7 & MUL-7
High-Gloss, Resin-Coated Photobase Paper & Luster, Resin-Coated Photobase Paper

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MARKET APPLICATIONS

- Photo Reproduction
- Signage
- Posters
- POP Displays

PRODUCT DESCRIPTION

MUG-7
- 7mil, resin-coated photobase paper
- Economical
- High-gloss surface, bright white
- Dye ink compatible

MUL-7
- 7 mil, resin-coated photobase paper
- Economical
- Luster surface, bright white
- Dye ink compatible

GENERAL AVAILABILITY

MUG-7	Part #
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MUL-7	Part #
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FEATURES & BENEFITS

MUG-7
- Economical resin-coated photobase paper
- One SKU for most dye-based thermal inkjet printers
- Printer compatibility with dye inks

MUL-7
- Economical, resin-coated photobase paper
- Printer compatibility with dye inks
- One SKU for most dye-based thermal inkjet printers

MEDIA COMPATIBILITY

Designed to offer exceptional print performance on Hewlett-Packard, Encad, and ColorSpan dye base thermal inkjet printers.

* For complete Magic® product set, refer to Magic Printer Compatibility Chart under Technical Support on www.magicinkjet.com.

* For additional product details – including printer settings and lamination guidelines – see Application Guide under Tech Support of www.magicinkjet.com

* For ICC profile availability, see www.magicinkjet.com

Phone: 1-800-628-8604
Fax: 1-800-861-4128

Disclaimer: Information presented in this product sellsheet is intended to offer a useful reference in selecting media for your output. No media warranties are implied unless specifically mentioned. Printer and / or ink changes may affect results. The most current product information may be found at www.magicinkjet.com.

Date: December 2010

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NEW VUE

PERFORATED WINDOW FILM – INSIDE MOUNT
for Solvent and Eco-Solvent Printers

MAGIC® NEW VUE is a one side viewable Perforated PVC Window Film that is specifically designed to be printed on the adhesive side. The innovative design is both an adhesive and an ink receptive coating, allowing retailers to mount their graphics inside the storefront eliminating damage to their advertisements. No additional adhesives or mounting tapes are required.

PHYSICAL PROPERTIES

Film Caliper:	7.3 mil	Perforation Ratio:	60/40	Adhesive Type:	Removable Acrylic
Film Type:	PVC	Optimum Print RH:	20-80%	Recommended Shelf Life:	1 yr
Backing Type:	PE	Optimum Print Temp.:	70°F (21°C)	Indoor life Expectancy*	1-2 yrs
				*Based on manufactures testing	

APPLICATIONS GUIDELINES

Printer & Ink Compatibility: NEW VUE is compatible with most solvent, eco-solvent printers including Roland, Mimaki, Mutoh, HP & Epson GS6000.

Printer Settings: Print to the white, outer tacky surface. Use SBL-7 backlit profiles or select generic backlit film or Window Perforated profiles and settings. Set vacuum to High. Set pinch rollers to ½ pressure, using the outer edge pinch rollers, only. Heater settings: 40c - 45c.

Printer Set-up: The image side is tacky therefore the printer and printer area should be cleaned prior to use to eliminate debris from settling on the print side. It is recommended to unwind a few wraps of material to feed into the printer, and keep the media draped on the unwinding roll. Advance the material ½" just before printing. Do not use take-up reels. Keep the material draped at unwind to avoid tugging. The material can drape to the floor. It is recommended to place a clean silicone media on the floor under the printer to prevent debris from collecting on the tacky substrate. Clean printer pull-rollers after printing using printer manufacturer cleaning instructions.

For printers that do not detect or sense black backing such as Mutoh, Oce and Seiko, affix a sheet of white paper over the media sensor (36" x 5). WARNING: The printer will not detect the end of the roll and will continue to print, therefore it is important to stop printing prior to the end of the roll.

For the GS6000, there is a black sensor strip on the printer, near the pinch rollers that extends the width of the printer. Place masking tape over the black strip to the entire width of the media so that the sensor is tricked into thinking the tape is the media. The printer will "measure" and detect the tapes width as the media.

Material Handling: Always handle NEW VUE so that the white image side is out. Never bend or wind the material so that the image side is in.   Do not remove the PE liner until time of install. Be careful to handle the graphic so the imaged graphic does not stick to itself. Graphics can laid be flat on a table or loosely hand wound – image side out, and set on end to dry. If stacking graphics for shipment, use a silicone sheet between layers. For tube shipments, cover the image with a silicone liner, silicone toward image, and wind on a 3" core (or larger), image side out.   Store unused material in its original packaging.

FINISHING RECOMMENDATIONS

Surface Protection: Use a silicone liner to protect the graphic for shipment. Do not use a laminate or overspray to protect the graphic.

Application: Apply to a clean, dry surface. Temperature of the application surface should be above 40 degrees. Hold the graphic up to, but not touching the application surface, graphic toward the glass, and tack down the top edge. While holding the remaining graphic from touching the application surface begin gently tacking down the graphic, starting from the top, working down and out, using a soft squeegee or roller, or by hand. Do not stretch.   Remove liner after graphic is installed.

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PRESSURE-SENSITIVE VINYL
Magic® New Vue

**Perforated Window Film (Inside Mount)
for Solvent and Eco-Solvent Printers**

Making all Great Images Count

MARKET APPLICATIONS

- Indoor perforated window film
- Storefront window signage
- POP displays.

PRODUCT DESCRIPTION

- Adhesive image side allows for inside mount – outside view window graphics.
- 7.3 mil 60/40 perforated window film.
- White PVC outer adhesive image side.
- Black PVC backside with PE liner.
- Removable, repositionable pressure sensitive adhesive.
- Compatible with solvent, eco-solvent printers.

GENERAL AVAILABILITY

New Vue	Part #
27" X 12'	71687
54" X 40'	71688

Core = 3 inch

`

FEATURES & BENEFITS

- Designed for solvent, eco-solvent printers.
- Indoor use.
- Indoor mount is protected by the outdoor elements and vandals.
- Easy install.

MEDIA COMPATIBILITY

Magic New Vue is compatible with most solvent, eco-solvent printing systems, including, Roland, Mimaki, VuTek, Mutoh and HP.

* For complete Magic® product compatibility refer to Magic Printer Compatibility Chart under Technical Support on www.magicinkjet.com.

* For additional product details – including printer settings– see Application Guide under Tech Support of www.magicinkjet.com

* For ICC profile availability, see www.magicinkjet.com

Phone: 1-800-628-8604
Fax: 1-800-861-4128

Disclaimer: Information presented in this product sell sheet is intended to offer a useful reference in selecting media for your output. No media warranties are implied unless specifically mentioned. Printer and / or ink changes may affect results. The most current product information may be found at www.magicinkjet.com.

Date: April 2013

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www.magicinkjet.com

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www.bciimage.com
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New Vue™

Perforated Window Film

This document will walk you through printing and application process of front adhesive perforated window film—

Coveris™ Advanced Coatings, Applications Lab

Quick Look

Print   Printing occurs on the adhesive side

Drape   Take up reel should not be used

Cut   Recommended to cut by hand

Protect   Be sure to use protective non-stick backer during shipment

Tips for Printing

You will be printing on the adhesive side so take the time to remove all particles and debris from your printer using the manufacturers suggested technique.

Since this product is printed on the adhesive side and the tension caused by an automatic take up reel can cause the substrate to stick to itself, it is not recommended to utilize a take up reel. Instead it is better for the product to drape on itself onto the floor in front of the printer for large projects and overnight runs. Place a piece of non-stick backer under the product on the floor to prevent particles there from sticking to it.

www.bciimage.com

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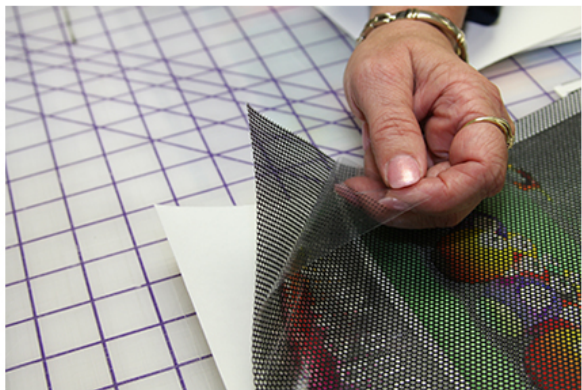
Post Print Handling

Cut the image off the printer and lay flat on a table or wind loosely, image side out and stand on end.

1

2

When preparing to transport the graphics, it is recommended to place a piece of silicone-lined paper over the printed/adhesive side to prevent the graphic from sticking to itself and to protect the image from dust or debris.

For sheet shipments, layer the images with a silicone liner, with the silicone side facing the graphic, as seen in step 2.

3
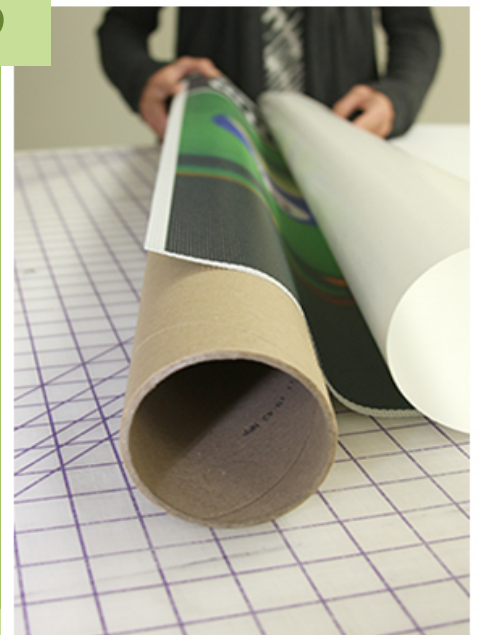
For tube shipments, cover the graphic with a silicone liner, silicone side toward graphic, and wind, image side out, on a 3" core (or larger), as seen in step 3. Note: When storing product outside of original packaging the rolls should not be stacked on top of each other or have other products stacked on top of them.

Magic®

www.magicinkjet.com

NEW VUE

7.3 mil 60/40 indoor perforated window film

Storefront window signage, POP displays

Adhesive image side allows for inside mount outside view window graphics

White PVC outer adhesive image side and black PVC backside with PE liner

Removable, repositionable pressure sensitive adhesive

Indoor mount is protected by the outdoor elements and vandals

Print on adhesive side mount to inside of window

PART	SIZE	LIST
71687	27"X12'	$63.02
71688	54"X40'	$430.62

COMPATIBILITY E Eco Solvent   S Solvent

Magic®

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MAGIC® PRODUCT APPLICATIONS GUIDE

NOVARA CF
POLYESTER CLEAR GlOSS FILM WITH OPACITY

MAGIC® Novara CF is a polyester clear gloss film with quick dry capabilities designed for aqueous pigment inks. Novara CF has the highest transmission black density in its class making it a perfect solution for film positives in silkscreen applications. It is also recommended for proofing overlay and graphic applications. This clear film has a slight level of opacity to eliminate the need for edge strips with optical sensing printers.

PHYSICAL PROPERTIES

Coated caliper. . . . . 5.4 mils (138 microns)
Haze. 3.5
% Transmission 79
% Opacity 2.9
Clarity 94
Optimum Printing Environment. . . . . . . 70°F / 21°C (30-70% RH)

PRINTING GUIDELINES

Printing: Print side is wound to the outside of the roll.

Printer & Printer Settings: Novara CF is designed to offer exceptional print performance on Hewlett-Packard DesignJet® series, Epson Stylus® Pro 7800, 9800 with K3 inks, and Canon iPF 8000 printers. Selecting photo black ink will create durable prints, with a slight drop in density. Matte black ink will produce high density images, but use caution when handling as the matte black ink may smear. Suggested printer setting on the HP series in Premium ID Photo, best. On the Epson series, use Archival Matte/2880dpi/fast/fine with photo black ink. On the Canon iPF8000, use Fine Art HW Photo/highest quality, if printing a backlit. For reflective graphics on the Canon iPF8000, use Photo Glossy/highest quality.

Color Calibration: ICC Color Calibration profiles can be obtained on our website given below. Profiles can be downloaded for a selected RIP, printer, ink, and media combination. Profiles are generated on a continual basis. Consult the website for current profile availability.

Material Storage: To protect unused material it is recommended to store material in its original packaging, in the poly bag at 59-86°F / 15-30°C and 30-70% RH.

APPLICATIONS RECOMMENDATIONS

Lamination: It is recommended that a non-thermal pressure-sensitive overlaminate be used. Allow film to dry completely prior to handling and laminating. Lamination is essential for waterfastness.

RECYCLING AND DISPOSAL

Disposal by recycling of ink jet media is the preferred method. Where recycle markets do not exist, disposal by landfill or an approved incinerator is acceptable. See the Magic Technical Bulletin @ www.magicinkjet.com.

DISPLAY FILMS
Magic® Novara CF

5.4 Mil Polyester Clear Gloss Film with Opacity

Making all Great Images Count
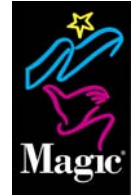
www.magicinkjet.com

MARKET APPLICATIONS

- Proofing overlay and graphic applications
- Film positives in silkscreen applications
-

PRODUCT DESCRIPTION

- 5.4 mil, clear polyester film with a slight level of opacity to eliminate the need for edge strips with optical sensing printers
- Designed for aqueous pigment inks
- Quick-dry capability
- Durable, tear-resistant

GENERAL AVAILABILITY

Novara CF	Part #
24" x 10'	70562
24" x 100'	70563
36" x 100'	70564
50" x 100'	70565
60" x 100'	70566

FEATURES & BENEFITS

- Polyester film for smoothest base uniformity and highest image resolution
- A perfect solution for film positives in screen-printing applications
- Quick-dry capability
- Aqueous pigment ink compatibility
- Slight level of opacity to eliminate the need for edge strips with optical sensing printers

MEDIA COMPATIBILITY

Designed to offer exceptional print performance on Hewlett-Packard DesignJet® series, Epson Stylus® Pro 7800, 9800 with K3 inks, and Canon iPF 8000 printers.

* For complete Magic® product set, refer to Magic Printer Compatibility Chart under Technical Support on www.magicinkjet.com.

* For additional product details – including printer settings and lamination guidelines – see Application Guide under Tech Support of www.magicinkjet.com

* For ICC profile availability, see www.magicinkjet.com

Phone: 1-800-628-8604
Fax: 1-800-861-4128

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Date: December 2010

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MAGIC® PRODUCT APPLICATIONS GUIDE

NOVARA CF
POLYESTER CLEAR GlOSS FILM WITH OPACITY

MAGIC® Novara CF is a polyester clear gloss film with quick dry capabilities designed for aqueous pigment inks. Novara CF has the highest transmission black density in its class making it a perfect solution for film positives in silkscreen applications. It is also recommended for proofing overlay and graphic applications. This clear film has a slight level of opacity to eliminate the need for edge strips with optical sensing printers.

PHYSICAL PROPERTIES

Coated caliper. . . . . 5.4 mils (138 microns)
Haze. 3.5
% Transmission 79
% Opacity 2.9
Clarity 94
Optimum Printing Environment. . . . . . . 70°F / 21°C (30-70% RH)

PRINTING GUIDELINES

Printing: Print side is wound to the outside of the roll.

Printer & Printer Settings: Novara CF is designed to offer exceptional print performance on Hewlett-Packard DesignJet® series, Epson Stylus®Pro 7800, 9800 with K3 inks, and Canon iPF 8000 printers. Selecting photo black ink will create durable prints, with a slight drop in density. Matte black ink will produce high density images, but use caution when handling as the matte black ink may smear. Suggested printer setting on the HP series in Premium ID Photo, best. On the Epson series, use Archival Matte/2880dpi/fast/fine with photo black ink. On the Canon iPF8000, use Fine Art HW Photo/highest quality, if printing a backlit. For reflective graphics on the Canon iPF8000, use Photo Glossy/highest quality.

Color Calibration: ICC Color Calibration profiles can be obtained on our website given below. Profiles can be downloaded for a selected RIP, printer, ink, and media combination. Profiles are generated on a continual basis. Consult the website for current profile availability.

Material Storage: To protect unused material it is recommended to store material in its original packaging, in the poly bag at 59-86°F / 15-30°C and 30-70% RH.

APPLICATIONS RECOMMENDATIONS

Lamination: It is recommended that a non-thermal pressure-sensitive overlaminate be used. Allow film to dry completely prior to handling and laminating. Lamination is essential for waterfastness.

RECYCLING AND DISPOSAL

Disposal by recycling of ink jet media is the preferred method. Where recycle markets do not exist, disposal by landfill or an approved incinerator is acceptable. See the Magic Technical Bulletin @ www.magicinkjet.com.

InteliCoat Technologies

For more information call 1-800-628-8604
or visit our web site at www.magicinkjet.com

* Most updated version of this guide can be obtained

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MAGIC® APPLICATIONS GUIDE

PCW-MATTE
100% Post-Consumer Waste Paper

PCW-MATTE is a 14 mil, 100% post-consumer waste matte paper, making it a truly earth friendly option for inkjet printing. This product is cross platform compatible with water-based, solvent, eco-solvent and uv-cure inks. The ultra-smooth surface, combined with the high ink saturation provides a rich density for photographic and indoor promotional graphics. PCW-MATTE produces superior print quality and is made in the USA.

PHYSICAL PROPERTIES

Caliper:	14 mil +/- 1mil	Type:	Paper
Basis Wt.:	300 gsm^2	Optimum Print RH:	30-80%
Finish:	Matte	Optimum Print Temp.:	70°F (21°C)
60° Gloss:	2.3	Recommended Shelf Life:	1 yr
Whiteness:	105	Outdoor life Expectancy:	Short term in enclosed displays
		Indoor Life Expectancy:	*12 months

*Based on manufactures testing

APPLICATIONS GUIDELINES

Imaging: PCW-MATTE has a matte finish and is wound image side out.

Printer Settings & Ink Compatibility: PCW-MATTE is one-side printable. PCW-MATTE is compatible with Solvent, Eco-Solvent, UV Cure and Water-based printing systems. To optimize print quality, printers should be set for the highest print quality. The universal media selection is "Heavyweight Coated Paper" with 200% max ink saturation. Media setting for Epson is "Ultra Smooth Fine Art" 2880 dpi, finest detail and edge smoothing checked. To optimize print quality on the solvent ink jet printers, 720-dpi bi-direction will offer the best results. 45° C to 55° C is a good temperature starting point for both pre and post heaters. PCW-MATTE profiles are available through our website.

Water-fastness: PCW-MATTE in conjunction with pigment inks has some water-resistance but paper, in general, is not water-fast.

Light Stability: Pigment inks provide the best long-term UV fade and water resistance. Dye base ink images should be laminated to avoid fade.

Material Handling: Take-up reels can be used. Store unused material in its original packaging.

FINISHING

Image Protection: PCW-MATTE may be over-laminated with most cold laminates and low-temperature heat laminates, but cold laminates are preferred and give better adhesion results. Make sure the images are completely dry prior to laminating. When the paper is over-laminated with heavy gauge laminates and either mounted to a board or encapsulated, overlap the image with a ¼" safe edge of laminate. This will seal the paper, preventing moisture absorption and paper splitting from the undue stress of the heavy gauge laminating films.

RECYCLING AND DISPOSAL

Disposal by recycling of ink jet media is the preferred method. Where recycle markets do not exist, disposal by landfill or an approved incinerator is acceptable. See Magic Recycle Bulletin @ www.magicinkjet.com.

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MATTE PAPERS
Magic® PCW-MATTE

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MARKET APPLICATIONS

- General Purpose Signage
- Posters
- POP Displays; Trade Show Graphics

PRODUCT DESCRIPTION

- 300 gsm (100 lb) paper
- Matte surface; high opacity
- Bright white
- Universally Compatible
- Impressive performance-to-cost value for graphic art and prepress applications.

GENERAL AVAILABILITY

PCW-MATTE	Part #
36" x 20'	72321
36" x 100'	72324
42" x 100'	72322

Core = 3"

FEATURES & BENEFITS

- First 100% PCW paper for wide format
- Matte surface for no-glare viewing
- Bright white base for maximum color gamut
- Economical for most budgets and applications
- Fast dry times and easy lamination makes these excellent choices for high-volume production applications
- Universal inkjet receptive coating.

MEDIA COMPATIBILITY

* Universally versatile and compatible with most inkjet printing systems, including water-based, solvent, eco-solvent and uv-cure.

* For additional product details – including printer settings and lamination guidelines – see Application Guide under Tech Support of www.magicinkjet.com

* For ICC profile availability, see www.magicinkjet.com

Phone: 1-800-628-8604
Fax: 1-800-861-4128

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Date: August 2014

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PEBBLE & WEAVE

Paperback textured vinyl wallcoverings

WEAVE 290gsm/14.5 mils

PEBBLE 293gsm/21.3 mils

Pasteable paper backing, easy installation

Non glare textured surface designed to mask dirt and fingerprints

Bright white for vivid color reproduction

Meets USA Type ll on washability, scrubbability, abrasion, dry crocking and heat aging resistance

PEBBLE

PART	SIZE	LIST
72194	24"X15'	$13.31
72192	54"X150'	$299.49

WEAVE

PART	SIZE	LIST
72193	24"X15'	$13.31
72191	54"X150'	$299.49

COMPATIBILITY E Eco Solvent   S Solvent   U UV Cure   L Latex

PEBBLE
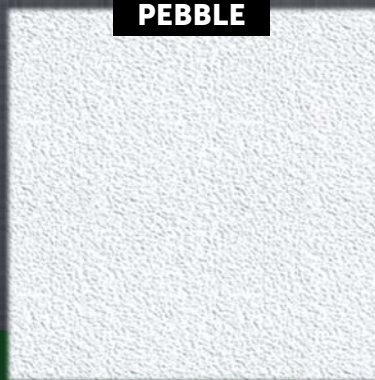
WEAVE
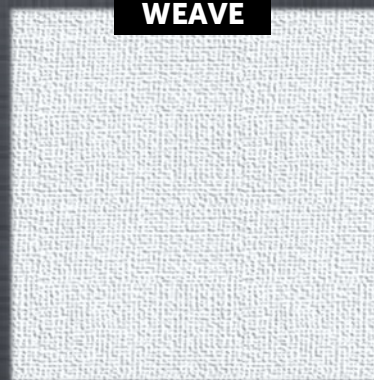
Magic®

Permalite Cross Reference **WATERBASED & SOLVENT** Products

We are pleased to offer the following chart that cross references Permalite media with our comparable products

PERMALITE - WB	MAGIC® COMPARABLE PRODUCT AND DESCRIPTION	
Volley 1320	DMVLA5	Calendered Vinyl PSA 5 mil
BarSpin 1330	STICK2	Polypropylene with Low-tack PSA
MaximHi 1340	DMVB15	DMVB15 Scrim Outdoor/Indoor Banner
Acceleration 1360	DMVB14	One-Sided Scrim Banner Vinyl 14.6 mil
FreeRider 1620	PPM7	Matte Polypropylene Banner 7 mil
MotoX 1620-UP	PPM7PSA	Matte Polypropylene Banner w/PSA
Canals 4301	VERONA300RAG	High Definition Rag Paper
Cabo 4301	VERONA300RAG	High Definition Rag Paper
Hoopla 1240	MUG7	Glossy Resin-coated Photobase
DeltaBlues 1235	MUL7	Luster Resin-coated Photobase
SouthSea 1445	TORINO 20M	Cotton Inkjet Canvas
Chicago 1448	TORINO 17M	Cotton/Poly Inkjet Canvas
PERMALITE - Solvent	**MAGIC® COMPARABLE PRODUCT AND DESCRIPTION**	
Paradise 3160	GFPHOTO	High resolution Glossy Photorealistic Paper
Revelation 3260	GFPHOTO 240	Heavyweight HR Glossy Photorealistic Paper
Montana 3450	GFCVM	Acid-Free Matte Inkjet Canvas

PHOTO ART 230

230 Gram High Definition Smooth Fine Art Paper for Digital Reproductions

New Photo Art 230 is a 230gsm fine art paper designed for optimal output on latex printers. This cost effective solution offers clean, sharp images with an exceptional color gamut. The smooth surface provides truly vibrant colors as well as beautifully defined blacks and gray tones.

PHYSICAL PROPERTIES

Basis Weight:	230 gm^2	Brighteners:	Yes
Caliper:	10.5 +/- 1 mil	Smoothness:	135
Whiteness:	120	Optimum Print Environment:	50%RH / 70^0 F
Brightness:	101		

APPLICATIONS GUIDELINES

Printer & Ink Compatibility: Photo Art 230 is compatible with HP Latex printers as well as Epson Stylus® Pro series, Canon® iPF Series waterbased pigment ink printers. This fine art paper is compatible with dye based inks, although pigment inks offer a more stable image from light fade.

Printer Settings: For Onyx 10x users use Photo Art 230 profile available online. For general HP Latex use HP profile, Super Heavyweight Paper. Use our Verona 250HD profile for Canon and Epson printers.
Profiles are available on our website at www.magicinkjet.com.

Handling: These fine art papers are not scuff-proof and should be treated as fine art and interleaved with acid free paper or glassine slip sheets.

Water Resistance: A high degree of image water resistance is present when pigment inks are used.

Material Storage: Photo Art 230 media offers best results when used one year after manufacturing date. The unused media should be stored in its original packaging in the poly bag and stored at 72º F (+/-5º).

FINISHING RECOMMENDATIONS

Mounting: Museum mounting techniques should be followed, including Japanese hinges and mylar corners. For fine art care and treatment standards, log onto www.artfacts.org/standards.

Framing: Imaged sheets may be framed under glass or other physical surface protection methods. For more information about framing, log onto the Professional Framing Association website at www.ppfa.com.

Surface Protection: It is recommended to follow industry standards when mounting fine art media. Fine art media is typically mounted behind glass for optimal image permanence.

RECYCLE AND DISPOSAL

Disposal by recycling of ink jet media is the preferred method. Where recycle markets do not exist, disposal by land fill or an approved incinerator is acceptable.

paper

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FINE ART PAPERS
PHOTO ART 230
230gsm Smooth, Matte Fine Art Paper
For HP Latex Printers

Magic

www.magicinkjet.com

Making all Great Images Count

MARKET APPLICATIONS

- Art Reproduction
- Original Art
- Commercial Art
- Photo Reproductions

PRODUCT DESCRIPTION

- 230 gsm white, 100% cotton fine art base paper
- Traditional matte finish, smooth surface
- High degree of water resistance with pigment inks

GENERAL AVAILABILITY

PHOTO ART 230	Part #
24" x 10'	72076
24" x 100'	72046 (2 min)
36" x 100'	72047
44" x 100'	72048
60" x 100'	72052

Core = 3"

FEATURES & BENEFITS

- Exceptional color gamut.
- HP Latex compatible.
- Image layers of the paper will be consistent, yielding repeatable image performance.
- Optimized for latex and pigment inks, which offers images less subject to light fade.
- Compatible with waterbased pigment, thermal and piezo printers.
- Recyclable

MEDIA COMPATIBILITY

Designed to offer exceptional print performance on Hewlett-Packard Latex printers.

* For complete Magic® product set, refer to Magic Printer Compatibility Chart under Technical Support on www.magicinkjet.com.

* For additional product details – including printer settings and finishing guidelines – see Application Guide under Tech Support of www.magicinkjet.com

* For ICC profile availability, see www.magicinkjet.com

Phone: 1-800-628-8604
Fax: 1-800-861-4128

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Date: October 2013

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PHOTO ART 230

Art reproduction, original art, commercial art, photo reproductions

230 gsm, 100% cotton fine art base paper

Traditional matte finish, smooth surface

Exceptional color gamut

Image layers of the paper will be consistent, yielding repeatable image performance

PART	SIZE	LIST
72076	24"X10'	$6.58
72046	24"X100'	$65.78
72047	36"X100'	$98.66
72048	44"X100'	$120.59
72052	60"X100'	$164.44

COMPATIBILITY 🅛 Latex ♻ Recyclable

CANVAS
Magic® Poly-Satin Canvas
Solvent, Eco-Solvent, Latex and UV Cure Compatible

Making all Great Images Count

MARKET APPLICATIONS

- Photo / Portrait
- Fine Art Reproductions
- Museum Art / Photo Display / Maps
- Banners

PRODUCT DESCRIPTION

- Magic® brand artist stretch canvas
- 11 mil, 230 gsm, 100% polyester , Satin
- Designed for solvent, eco-solvent, latex and UV cure inks.
- OB free.

GENERAL AVAILABILITY

Poly-Satin Canvas	Part #
36" x 10"	72041
36" x 100'	72042
50" x 100'	72043
54" x 100'	72044
60" x 100''	72045

Core = 3 inch

FEATURES & BENEFITS

- Designed for solvent, eco-solvent, latex and UV cure printer systems.
- Coated product that delivers superior color gamut and resolution.
- Designed for high-volume production and stretching applications.
- No optical brighteners.
- Short term outdoor durability

MEDIA COMPATIBILITY

Poly-Satin is compatible with Vutek®, Mimaki JV3, Mutoh Toucan, HP Latex, Nur, Roland, Scitex, and other solvent, eco-solvent, UV cure and latex inks printers.

* For complete Magic® product set, refer to Magic Grand Format and Solvent Ink Jet Media Printer Ink Set Compatibility Chart under Technical Support on www.magicinkjet.com.

* For additional product details – including printer settings and lamination guidelines – see Application Guide under Tech Support of www.magicinkjet.com

* For ICC profile availability, see www.magicinkjet.com

Phone: 1-413-539-5731
Fax: 1-800-861-4128

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Date: September 2013

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Poly-Satin Ink Jet Stretch Canvas

For Solvent, Eco Solvent, UV Cure and Latex Ink Jet Printing Systems

POLY-SATIN is a 100% Polyester Canvas that is designed to offer exceptional print performance with solvent, eco solvent, latex and UV cure inks. This flexible, OB free canvas, with its soft satin finish is ideal for gallery wraps, stretching and framing applications. Poly-Satin is short-term outdoor durable. This media is a cost effective option for high volume production runs and is also recyclable.

PHYSICAL PROPERTIES

Caliper	11 +/- 2 mil
Basis Weight	230 +/- 30 g/m^2
Whiteness	78
Gloss (60°)	3.3
Optimum Printing Environment	70°F (30-70% RH)
Outdoor Durability	3 months

APPLICATIONS GUIDELINES

Printer & Ink Compatibility: Poly-Satin Canvas may be printed using most solvent, eco-solvent, latex, and UV cure printing systems such as: Hewlett Packard, Mimaki JV3, Roland, Mutoh, DGI, Vutek, and Nur, etc.

Printer Settings: Ink coverage of up to 250% is recommended.
Suggested heater settings: pre-heat 58° C, print heat 52° C. Due to the heavy weight of the canvas, feed rate through the printers may not be consistent, causing prints to differ slightly in size from print to print or from the expected size after RIP'ing. To optimize print quality, printers should be set for highest print quality. Visit our website for profiles.

Other suggested profiles: HP Latex, use the HP Satin Canvas. Roland, use Magic GFCVM profile.

Base Consistency: The 100% polyester produces repeatable, consistent weave compared to natural fiber canvases.

Mounting: Please see the CANVAS STRETCHING Technical Bulleting on our website: www.magicinkjet.com

Water Resistance: Poly-Satin Canvas has a high degree of water resistance. The water resistance may be affected if the recommended ink saturation level is exceeded.

Surface Protection: Liquid laminates are compatible and provide excellent surface protection. Always pretest the liquid laminate for compatibility prior to using. Magic® Enhance or Marabu Clearshield Type C formula is recommended. It is not recommended to over- laminate with pressure sensitive laminates.

Material Storage: Unimaged material should be stored at 72° F (+/-5°) for no more than 1 year. After use, the roll should be stored in its original packaging in the poly bag for no more than 1 year.

FINISHING RECOMMENDATIONS

Allow inks to fully dry before stretching to a rigid board or stretcher bars. Heat knifes will eliminate edge fraying. Poly-Satin can be sewn. Refer to the technical bulletin "Mounting Canvas onto a Stretcher Frame" on the Magicinkjet.com web site.

RECYCLING AND DISPOSAL

PET Disposal by recycling of ink jet media is the preferred method. Where recycle markets do not exist, disposal by landfill or an approved incinerator is acceptable. See Magic Recycle Bulletin @ www.magicinkjet.com

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Poster Plus
SATIN PHOTOREALISTIC PAPER

MAGIC® Poster Plus is a 7 mil satin instant dry photo realistic paper designed to provide exceptional image quality with pigment aqueous inks as well as UV cure and HP Latex print systems . Poster Plus is an affordable, environmentally friendly solution for photographic, poster and point of sale imaging. The satin finish provides for optimum viewing in any lighting environment.

PHYSICAL PROPERTIES

Caliper	7 mil . . .175 microns
Opacity	98 %
Gloss (60°)	20%
Basis Wt.	175 g/m$_2$ . . . 5.1oz/yd$_2$
Optimum Printing Environment	70°F (60-70% RH)

APPLICATIONS GUIDELINES

Printer and Ink Compatibility: Poster Plus may be printed on almost all thermal and piezo ink jet printer systems equipped with pigmented or dye, water-based inks. Compatible systems include: Hewlett Packard DesignJet® series, Canon, and water-based piezo such as Epson Stylus printer systems.

Printer Settings: Use "Semi-Gloss Photo" or Instant Dry Photo HP DesignJet series and Glossy Photo Paper modes for Canons and Epsons. The recommended maximum ink saturation level is 300%. High humidity environments will result in slower dry times and increased paper cockle due to moisture in the sheet. Allow image to completely dry before handling or laminating.

Color Calibration: ICC color profiles can be obtained for selected RIP, ink and printer combinations on the www.magicinkjet.com web page. Profile solutions are continually being generated, so consult the web page for current availability.

Material Handling & Storage: To protect unused material, store material in its original packaging, in the poly bag at 72° F (+/-5).

FINISHING RECOMMENDATIONS

Lamination: Poster Plus may be overlaminated with most cold laminates and low temperature hot laminates, but cold laminates, such as Magic® Protect, are preferred. Allow image to completely dry before handling or laminating. Overlamination will also decrease the rate at which dye ink images fade. Lamination will also add protection against dust, abrasion, and finger prints. Use laminates of equal gauge when encapsulating to prevent image curl. Overlaminating one side may cause the product to curl towards the laminated side.

Mounting: Cold pressure-sensitive adhesives typically provide the most aggressive bonds and are recommended. It is always best to pre-test the adhesive with the back of photo papers. Photobase papers often contain anti-curl backside coating which may or may not result in a strong adhesive bond.

RECYCLING AND DISPOSAL

Disposal by recycling of ink jet media is the preferred method. Where recycle markets do not exist, disposal by landfill or an approved incinerator is acceptable. See Magic Recycle Bulletin @ www.magicinkjet.com

PAPER

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POSTERMAX

Latex-Saturated Wet Strength Paper

for Solvent & Eco-Solvent Ink Printing Systems

MAGIC® POSTERMAX is a luster finish 10 mil one-side coated paper designed to meet the demands of high production Solvent and specifically Eco-Solvent ink jet printers. This latex saturated, wet-strength paper features a smooth brighter white surface which offers exceptional print fidelity with a distinctive luster finish. POSTERMAX resists cracking when folded, and film lamination is not required in most intended applications.

PHYSICAL PROPERTIES

Basis Weight	235 g/m^2 (6.9 oz/yd^2)
Caliper	10 mil (254 microns)
% Opacity	99%
Whiteness	104.5%
Brightness	92 minimum
Gloss (60˚)	25 @ 60º

APPLICATION GUIDELINES

Printer & Ink Compatibility: POSTERMAX may be printed in most solvent and eco-solvent printing systems such as: Mimaki, Mutoh, Seiko, Vutek, Scitex, Nur, Roland, and Hewlett-Packard, etc.

Printer Settings: Optimized printer settings will vary from printer manufacturers. Recommended heater settings: pre heat 52 ˚C, and post heat 58˚ C.

FINISHING RECOMMENDATIONS

Surface Protection: For indoor and outdoor applications, POSTERMAX will hold up for 3-6 months without lamination. It is recommended to over laminate if graphic will be exposed to severe conditions or where longer life is needed. Pressure-sensitive over laminates are recommended for outdoor graphics. Liquid laminates can be used for wall covering applications. This added protection is needed where routine cleaning is common.

Promotional Signage: Designed for indoor and outdoor promotional signage POSTERMAX handles well in all types of posting situations. Standard starch-based pastes may be used. This product is also recommended for use with Shu-Stik Ultra Billboard Adhesive Product #8750.

Decorative Wall Covering & Murals Can be pasted and hung just like standard wall covering materials. Standard pastes such as Henkel Metylan Cellulose Wallpaper Paste provides adequate adhesion and allow for easier stripping when the wall covering is to be removed or replaced. Mixing instructions for most standard wallpaper pastes include water measure for both high yield and high tack concentrations. The lower water measure is recommended for this product. Heavy duty pastes such as Supron Supro Clear 34, Harvest 1st Choice GH34, and Rowan Professional Heavy Duty Clear Pro 838 come premixed, have a more aggressive adhesive, and are recommended for more permanent applications.

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SOLVENT INK JET PAPER
Magic® POSTERMAX™

Latex-Saturated, Wet Strength Paper

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MARKET APPLICATIONS

- Digital Wallcovering and Murals
- Indoor / Outdoor Display Posters
- Backlit Transit Graphics
- Theater Posters, Promotional Signage
- POP Displays

PRODUCT DESCRIPTION

- 235 gsm (10 mil)
- Latex-saturated, one-side-coated, wet-strength paper
- Designed for high-production solvent and eco-solvent ink jet systems
- Heavy weight product suitable for wallcovering
- High resolution, luster printing surface.

GENERAL AVAILABILITY

POSTERMAX	Part #
54" x 20'	70368
54" x 200'	70374

FEATURES & BENEFITS

- Smooth, bright white surface offers exceptional print fidelity with a distinctive luster finish
- Indoor / Outdoor use
- Strong, flexible and durable; handles well when posted.
- Resist cracking when folded.
- Product may be laminated for additional protection, but lamination is not required for most intended applications.

MEDIA COMPATIBILITY

POSTERMAX is compatible with most solvent and eco-solvent ink jet printing systems – including Mimaki, Mutoh, Seiko, Vutek, Scitex, Nur, Roland, Hewlett-Packard, etc.

* For complete Magic® product set, refer to Magic Printer Compatibility Chart under Technical Support on www.magicinkjet.com.

* For additional product details – including printer settings and finishing guidelines – see Application Guide under Tech Support of www.magicinkjet.com

* For ICC profile availability, see www.magicinkjet.com

Phone:	1-800-628-8604
Fax:	1-800-861-4128

Disclaimer: Information presented in this product sell sheet is intended to offer a useful reference in selecting media for your output. No media warranties are implied unless specifically mentioned. Printer and / or ink changes may affect results. The most current product information may be found at www.magicinkjet.com.

Date: October 2010

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PPM7
Matte Polypropylene Banner

MAGIC® PPM7 is an economical 9 mil polypropylene durable banner material that resists water and UV damage. PPM7 produces high quality images on a matte finish. The matte surface minimizes glare from indoor lighting. The product is designed for use with aqueous, solvent, and eco-solvent, latex and UV cure print systems.

PPM7 and can be used for both indoor and short term outdoor applications. PPM7 is also available with a pressure-sensitive adhesive (PPM7 PSA) for aqueous printer systems.

PHYSICAL PROPERTIES

Basis Weight:	165.7 g/m^2	Optimum Print RH:	20-60%	Tensile Strength MD/CD:	50 / 65 lbs/in
Caliper:	9 mil (229.5 micron)	Optimum Print Temp.:	70°F (21°C)	Elongation (MD/CD):	150 / 90%
% Opacity:	97%	Flame Spread:	Class B	Recommended Shelf Life:	1 yr
White/Bright:	102 / 101	Minimum Exp. Temp:	10° F	Outdoor life expectancy*:	1 months
Gloss (60°):	2			Indoor Life Expectancy*	6 months

*Base on mfg's accelerated testing w/ pigmented ink. Results may vary.

APPLICATIONS GUIDELINES

Printer & Ink Compatibility: PPM-7 may be printed with aqueous, solvent, eco solvent, latex and UV cure print systems such as HP, Epson, Canon, Mimaki, Roland, Nur, Vutek, Mutoh and Nur. Although dye-based inks provide a higher color gamut, ink fade can occur. Using pigmented inks for longer lasting images.

Printer Settings: To optimize print quality, printers should be set for the highest print quality. The maximum ink saturation level for aqueous inks is 250%. Use media selection "Heavy Weight Coated Paper" for the most printers. "Super" and "bi-directional" are the printers settings for waterbased piezo wide format printers. Dry-time will vary depending on ink type and the ink saturation level used. For solvent / eco-solvent, the max ink saturation is 350%. Suggested heat settings: preheat 42° C, and 37° C post heat. ICC profiles may be obtained from our website at www.magicinkjet.com.

Water Resistance & Surface Protection: Pigmented inks provide the best long-term UV fade and water resistance. Dye-based inks have a moderate level of water resistance. Over-saturation can affect the waterfast properties. Use a vinyl PSA to protect the surface from dirt and abrasion. Note: Laminating one side can result in curl toward the laminated side.

FINISHING RECOMMENDATIONS

Tape and Stitched Hem: Using high-tack banner tape is preferred to sewing, as sewing can scratch the coating. If sewing, it is recommended that the unlaminated banners be stitched hem side up so that the sewing machine foot comes in contact with only the backside of the banner. For maximum reinforcement, a double stitched hem with a double lock stitch with a maximum of five stitches per inch and corner reinforcements are recommended.

Grommeting: Grommets should be placed in the hemline so that the grommet is through two layers. Corner grommets should be placed through the four overlapping layers. A reinforced corner is also recommended to increase durability.

RECYCLING AND DISPOSAL

Disposal by recycling of ink jet media is the preferred method. Where recycle markets do not exist, disposal by landfill or an approved incinerator is acceptable. See Magic Recycle Bulletin @ www.magicinkjet.com

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BANNERS
PPM7
PPM7PSA

Polypropylene, Polypropylene w/PSA
For Aqueous, Solvent & Eco-Solvent Printers
Making all Great Images Count

MARKET APPLICATIONS

- Economical Indoor/Outdoor Promotional Banners
- Trade Show Graphics
- Short-Term Retail POP / Promotions

PRODUCT DESCRIPTION

PPM7

Polypropylene – Indoor/Outdoor Low-Cost Banner
Total Caliper: 9.0 mil; Opacity: 97%

PPM7PSA

PPM7 with permanent, Pressure-Sensitive Adhesive
Total Caliper: 11.0 mils; 1.0 poly release liner
Recommended for flat, smooth surfaces

GENERAL AVAILABILITY

PPM7	Part #	PPM7PSA	Part #
24" x 60'	64049	24" x 10'	70394
36" x 10'	44835	36" x 60'	45543
36" x 100'	44836	42" x 60'	48426
42" x100'	70864	50" x 60'	46389
50" x 100'	45836		
54" x 100'	49010		
54" x 500'	*70857		
60" x 60'	44980		
60 x 500'	*70858		

Core =3" with a 2" adapter
* 6" Core

Features & Benefits

PPM7
Universal matte coating
Ideal for indoor or short-term outdoor applications where high quality images and durability are required

PPM7PSA
Indoor or short-term outdoor posters or POP
displays where *permanent adhesive* is required.

Media Compatibility

PPM7 and PPM7PSA have a universal inkjet coating compatible with aqueous, solvent, eco-solvent, HP Latex and UV Cure print systems.

*For complete Magic® product set, refer to Magic Printer Compatibility Chart under Technical Support on www.magicinkjet.com.

* For additional product details – including printer settings and lamination guidelines – see Application Guide under Tech Support of www.magicinkjet.com

* For ICC profile availability, see www.magicinkjet.com

Phone: 1-800-628-8604
Fax: 1-800-861-4128

Date: June 2012

PPM7 PSA

PRESSURE-SENSITIVE POLYPROPYLENE BANNER

MAGIC® PPM7 PSA is a low cost polypropylene banner with a permanent, pressure-sensitive adhesive. This product is ideal for short-term outdoor applications. PPM7 PSA has a universal coating that is compatible with most thermal and piezo water-based ink jet printer systems. PPM7 PSA can be applied to a wide variety of flat and smooth surfaces.

PHYSICAL PROPERTIES

Total Caliper . . . . 11 mil
Liner Caliper . . . . 1 mil
Adhesive Type . . . . Permanent
%Opacity 97%

Outdoor Life Expectancy* . . . . . 3 months (UV inks)
Indoor Life Expectancy* . . . . 9 months (UV inks)

Based on manufacturer's accelerated age testing using pigmented ink. Results may vary based on usage.

APPLICATIONS GUIDELINES

Application Use: This product is recommended for short-term indoor and outdoor applications.

Printer & Ink Compatibility: PPM7 PSA can be printed with Hewlett-Packard DesignJet®, Epson Stylus Pro series, Canon iPF series, and other aqueous thermal and piezo systems. It is recommended to use pigment inks for longer-lasting images. Although dye-based inks provide a higher color gamut, ink fade can occur.

Water Resistance & Surface Protection: To obtain a high degree of water resistance, use only pigment ink. Laminating is recommended to protect the surface from dirt, abrasion, and frequent handling. Dirt and stains cannot be cleaned from the imaged surface and excessive folding or creasing can damage the image surface. Dye-based inks will yield good color gamut, but with repeated exposure to water, bleeding may occur. Overlaminating dye-based ink will not eliminate image bleed, unless the material is completely sealed to a non-porous surface or encapsulated. If water migrates under the laminate, ink bleeding may occur. Let image dry 24 hours before exposing to moisture.

Printing: Ink coverage of up to 250% is recommended. Excessive ink saturation can affect the waterfast properties of the material and show ink bleed in high saturated areas. To optimize print quality, printers should be set for highest print quality. Select the "HEAVY COATED PAPER" mode for HP DesignJet® printer series.

Color Calibration: ICC color profiles can be obtained for selected RIP, ink, and printer combinations on the web page given below.

Material Handling & Storage: Once print is completed, roll imaged media onto a core until ready for posting. Folding of the material is not recommended. After use, the roll should be stored at 72° F (+/-5°) and in its original packaging in the poly bag for no more than 1 year.

FINISHING RECOMMENDATIONS

Laminating: Let image completely dry prior to laminating. A vinyl pressure-sensitive overlaminate or an acrylic liquid overcoat can be used. However, overlaminating one side may cause the product to curl toward the laminated side. Let image dry 24 hours before laminating.

Surface Preparation & Recommended Surfaces: Always ensure that the surface is thoroughly cleaned, free of dust, dirt, and cleaner residues. Painted metal, glass, and standard graphic art mounting boards should be cleaned with standard glass cleaners or isopropyl alcohol (IPA). Poor surface conditions will cause adhesion loss or failure. This product is designed for use on smooth, flat surfaces such as: stainless steel, glass, acrylics, ABS, polycarbonate, Plexiglas® Fome-Cor® and Sintra® Textured surfaces, magnets, and wood tend to promote poor adhesion. Application of PPM7 PSA to drywall is not recommended due to potential difficulties in removal. Always pretest your application surface prior to installation.

Installation: To ensure adequate edge adhesion, it is recommended that 1/2" be trimmed from the edges of the final print prior to posting, or using edge sealer. For best results, a professional installer should be used. Dry application is recommended. For large prints or more difficult surfaces, very small amounts of water can be used to aid in the adhesive installation. Spray a small amount of the wetting solution on the application surface. Water, Windex® or diluted soap can be used for wet applications.

Removal: Removal may require physical scraping or the use of solvents. By inserting a sharp knife or razor under a corner of the graphic and peeling the graphic carefully, the graphic will remove in fairly large pieces. Most residue can be removed by picking with the adhesive side of the removed graphic. If this is unsuccessful, soak the residue with a mild solvent (i.e, isopropyl alcohol, ethanol).

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BANNERS
PPM7
PPM7PSA

Polypropylene, Polypropylene w/PSA
For Aqueous, Solvent & Eco-Solvent Printers
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MARKET APPLICATIONS

• Economical Indoor/Outdoor Promotional Banners
• Trade Show Graphics
• Short-Term Retail POP / Promotions

PRODUCT DESCRIPTION

PPM7

Polypropylene – Indoor/Outdoor Low-Cost Banner
Total Caliper: 9.0 mil; Opacity: 97%

PPM7PSA

PPM7 with permanent, Pressure-Sensitive Adhesive
Total Caliper: 11.0 mils; 1.0 poly release liner
Recommended for flat, smooth surfaces

GENERAL AVAILABILITY

PPM7	Part #	PPM7PSA	Part #
24" x 60'	64049 *	36" x 60'	45543 **
36" x 100'	44836 *	42" x 60'	48426 **
36" x 100'	49009 *	50" x 60'	46389 **
42" x100	70864 *		
50" x 100'	45836 *		
54" x 100'	49010 *		
60" x 60'	44980 *		

* Core =3" with a 2" adapter
** Core =2"

Features & Benefits

PPM7
Universal matte coating
Ideal for indoor or short-term outdoor applications where high quality images and durability are required

PPM7PSA
Indoor or short-term outdoor posters or POP displays where *permanent adhesive* is required.

Media Compatibility

* For complete Magic® product set, refer to Magic Printer Compatibility Chart under Technical Support on www.magicinkjet.com.

* For additional product details – including printer settings and lamination guidelines – see Application Guide under Tech Support of www.magicinkjet.com

* For ICC profile availability, see www.magicinkjet.com

Phone: 1-800-628-8604
Fax: 1-800-861-4128

Disclaimer: Information presented in this product sellsheet is intended to offer a useful reference in selecting media for your output. No media warranties are implied unless specifically mentioned. Printer and / or ink changes may affect results. The most current product information may be found at www.magicinkjet.com.

Date: March 2011

PPM7UV

POLYPROPYLENE INK JET BANNER

MAGIC® PPM7UV is an economical 7 mil polypropylene durable banner material that resists water and UV damage. PPM7 produces high quality images on a matte finish. The matte surface minimizes glare from indoor lighting. The product is designed to offer exceptional print performance on UV cure printing systems using flexible ink sets.

PHYSICAL PROPERTIES

Caliper . . . . . . .7.0 mil (179 micron)
Basis Weight . . . . 165.7 g/m²
%Opacity 97
Gloss 3
Flame Spread Classification (ASTM E-84) Class B
 Based on ASTM E-84 Test Method

Tensile Strength (MD/CD) . . . . 50/65 lbs/in
Ultimate Elongation (MD/CD) 150/90%
Optimum Print Temp. . . . . 70˚F (21˚C)
Indoor Life Expectancy* . . . . 6 months (UV inks)
Outdoor Life Expectancy* . . . . 1 month (UV inks)
*Based on manufacturer's accelerated age testing using conventional pigment ink. Results may vary based on usage.

APPLICATIONS GUIDELINES

Outdoor and Indoor Banner: This product is recommended for indoor and outdoor banner applications.

Printer & Ink Compatibility: PPM7UV is designed to offer exceptional print performance on UV cure printing systems using flexible inks.

Water Resistance & Surface Protection: This product is considered water resistant. The film surface can be damaged from excessive folding and creasing, so overlaminating is recommended for protection

Material Handling & Storage: Once print is completed, roll imaged media onto a core until ready for use. Folding of the material is not recommended. After use, the roll should be stored in its original packaging in the poly bag at 59-86˚F / 15-30˚C and 30-70% RH.

FINISHING RECOMMENDATIONS

Tape & Stitched Hem: Standard high-tack banner tape can be used and is preferred to sewing, as the sewing process can scratch the film surface. Follow the guidelines of the tape manufacturer. If sewing, it is recommended that the unlaminated banners be stitched hem side up so that the sewing machine foot comes in contact with only the backside of the banner. For maximum reinforcement, a double-stitched hem with a double lock stitch, with a maximum of five stitches per inch and corner reinforcements are recommended.

Grommeting: Grommets should be placed in the hemline so that the grommet is through two layers. Corner grommets should be placed through the four overlapping layers. A reinforced corner is also recommended to increase durability.

Laminating: A vinyl pressure-sensitive overlaminate or an acrylic liquid overcoat can also be used. However, overlaminating one side may cause the product to curl toward the laminated side.

RECYCLING AND DISPOSAL

Disposal by recycling of ink jet media is the preferred method. Where recycle markets do not exist, disposal by landfill or an approved incinerator is acceptable. See the Magic Technical Bulletin @ www.magicinkjet.com

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UV CURE
Magic® PPM7UV
Polypropylene
For UV cure printing using flexible ink sets

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MARKET APPLICATIONS

- Economical Indoor/Outdoor Promotional Banners
- Trade Show Graphics
- Short-Term Retail POP / Promotions

PRODUCT DESCRIPTION

PPM7

Polypropylene – Indoor/Outdoor Low-Cost Banner
Total Caliper: 9.0 mil; Opacity: 97%

GENERAL AVAILABILITY

PPM7UV	Part #	
36" x 30'	71030	
36" x 500'	71031	3 Roll Bulk
54" x 500'	71032	3 Roll Bulk

Note: 3" core

FEATURES & BENEFITS

- Ideal for indoor or short-term outdoor applications where high quality images and durability are required
- Designed to offer exceptional print performance on UV cure printing systems using flexible ink sets

Phone: 1-800-628-8604
Fax: 1-800-861-4128

Disclaimer: Information presented in this product sell sheet is intended to offer a useful reference in selecting media for your output. No media warranties are implied unless specifically mentioned. Printer and / or ink changes may affect results. The most current product information may be found at www.magicinkjet.com.

Date: February 14, 2011

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PROTECT™ 2 mil Glossy PSA Lamination Film

Magic Protect™ 2 mil is a glossy polyester, pressure sensitive adhesive laminate that is used to protect inkjet graphics from dirt and scuffing, and prolongs image integrity. Protect 2 mil is compatible with the wide variety of media our Magic brand has to offer and serves as a matched component with our SBL-7, Universal Backlit Film, for indoor / outdoor backlit solution. Magic Protect 2 mil and our SBL-7 will give you optimized backlit construction in two simple steps. Just print and laminate!

PHYSICAL PROPERTIES

Type:	Polyester	Minimum Application Temp:	50° F
Caliper of Film / Liner:	2 mil / 1.2 mil	Adhesive:	Permanent Acrylic
Gloss (60°):	125	Peel Force – Stainless Steel:	3.9 lbs. / in
Finish:	Clear Glossy	Outdoor Life Expectancy:	1 yr
		Shelf Life:	1 yr.

APPLICATIONS GUIDELINES

Outdoor/Indoor Use: Protect™ 2 mil is recommended for indoor and outdoor applications.
When used in conjunction with outdoor media, including banner products, edge sealers or encapsulation is recommended to avoid wicking. Protect™ 2mil must be applied at minimum air and surface temperatures of 50 degrees F.

Material Handling & Storage: Folding of the material is not recommended. Unused material should be stored at 72$_{o}$F (+/-5$_{o}$) for no more than 6 months, to obtain maximum adhesion values. After use, the roll should be stored in its original packaging in the poly bag.

FINISHING RECOMMENDATIONS

Recommended Applications: Protect™ 2mil is a matched component with SBL-7 for an indoor/outdoor backlit solution. Protect 2 mil is compatible with most inkjet media as well. Heavy textured inkjet media, such as canvas is not recommended.

Surface Preparation: Always insure the graphic is completely dry prior to overlaminating. Pretest material compatibility.

Laminating Tips: Use minimal brake tension on laminator to avoid curl. Encapsulation is recommended for outdoor applications.

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PRESSURE-SENSITIVE FILM
Magic® PROTECT™ 2 mil

Glossy Polyester Lamination Film

Making all Great Images Count

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MARKET APPLICATIONS

- Clear glossy pressure sensitive polyester over lamination film for graphic protection.
- Use as a matched component solution for indoor / outdoor backlits when used with SBL-7.

PRODUCT DESCRIPTION

2 mil, clear, glossy PSA for indoor or outdoor applications.

GENERAL AVAILABILITY

Protect	Part #
24" x 10'	71679
51" x 150'	71682
54" x 150'	71681

Core = 3 inch
`

FEATURES & BENEFITS

- Glossy finish that makes images Pop.
- May be used as a graphic protection for most applications.
- Indoor or outdoor use

MEDIA COMPATIBILITY

Protect 2mil can be used as a graphic lamination film for most applications.

* For additional Magic product details – see our website: www.magicinkjet.com

Phone: 1-800-628-8604
Fax: 1-800-861-4128

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Date: November 2012

PROTECT 3 MIL LAMINATION FILM

Product Description

PROTECT 3 mil is a textured, pressure sensitive vinyl, over lamination film for graphic protection. It is ideal for POP displays, tradeshows graphics, roll up banner stands and, retail advertising and is compatible with most Magic® products. Pairing PROTECT 3 mil with Magic's popular POS PRO line is suggested.

Advantages

Embossed texture
Anti-glare surface
Indoor and outdoor based on application

Compatibility

Most inkjet media
Not recommended for heavy textured inkjet media such as canvas

Physical Properties

Caliper Of Film / Liner	3 mil (76.2 microns)/4.6 (116 microns)
Gloss (60˚)	10
Minimum Application Temperature	40˚F
Adhesive	Permanent acrylic
Peel force (stainless steel)	3.0 lbs/ in
Outdoor Life Expectancy	1 year

Guidelines

Surface Preparation	Ensure graphic is completely dry before over lamination. Pretest material compatibility.
Finishing	Use minimal brake tension or laminator to avoid curl. When used in conjunction with outdoor media, including banner products, edge sealers or encapsulation is recommended to avoid wicking. Folding of material is not recommended.
Storage	Temperature: 72˚F ± 5˚F (22˚C ± 3˚C); Relative Humidity: 35% – 65%, store in original poly bag
Shelf Life	6 months under recommended storage conditions

PROTECT™ 5 mil Textured PSA Lamination Film

Magic Protect™ is a 5 mil textured pressure sensitive adhesive vinyl laminate that is used to protect inkjet graphics from dirt and scuffing, and prolongs image integrity. Protect 5 mil is compatible with the wide variety of media our Magic brand has to offer and serves as a match component solution for trade show graphics when used with our POSPRO+400. While the traditional method for creating trade show graphics includes multiple steps and costly materials, this cost effective, time saving solution of Magic Protect™ and our 16.2mil POSPRO+400 will give you optimized trade show construction in two simple steps. Just print and laminate! The anti-glare surface is ideal for Trade show and banner stand graphics.

PHYSICAL PROPERTIES

Vinyl Type:	Calendared	Minimum Application Temp:	40° F
Caliper of Film / Liner:	5 mil / 4.5 mil	Adhesive:	Permanent Acrylic
Gloss (60°):	10	Peel Force – Stainless Steel:	3 lbs. / in
Finish:	Clear Textured	Outdoor Life Expectancy:	1 yr

APPLICATIONS GUIDELINES

Indoor Use: The matched component of Protect™ 5 mil and Pos Pro +400 is recommended for indoor use only. Protect™ 5 mil is compatible with a wide range of indoor and outdoor media.

Outdoor/Indoor Use: This product is recommended for short term outdoor applications when used in conjunction with outdoor media, including banner products. Edge sealers or encapsulation is recommended to avoid wicking. Protect™ 5 mil must be applied at minimum air and surface temperatures of 40 degrees F.

Material Handling & Storage: Folding of the material is not recommended. Unused material should be stored at $72_{o}F$ (+/-5_{o}) for no more than 6 months, to obtain maximum adhesion values. After use, the roll should be stored in its original packaging in the poly bag.

FINISHING RECOMMENDATIONS

Recommended Application Surfaces: Protect™ is a matched component with PosPro +400 for Trade Show Graphics and is compatible with most inkjet media. Heavy textured inkjet media, such as canvas is not recommended. Pretest media compatibility.

Surface Preparation: Always insure the graphic is completely dry prior to overlaminating.

Laminating Tips: Use minimal brake tension to avoid curl.

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PRESSURE-SENSITIVE VINYL
Magic® PROTECT™ 5 mil

Textured PSA Vinyl Lamination Film

Making all Great Images Count

www.magicinkjet.com

MARKET APPLICATIONS

- Textured pressure sensitive vinyl over lamination film for graphic protection.
- Use as a matched component solution for trades show graphics when used with Pos Pro+ 400.

PRODUCT DESCRIPTION

5 mil calendared, clear, textured PSA for indoor or outdoor applications.

GENERAL AVAILABILITY

Protect	Part #
38" x 5'	70411
38" x 150'	71449
51" x 150'	71450

Core = 3 inch
`

FEATURES & BENEFITS

- Anti-glare textured finish.
- May be used as a graphic protection for most applications.
- Indoor or outdoor use

MEDIA COMPATIBILITY

Protect can be used as a graphic lamination film for most applications.

* For additional Magic product details – see our website: www.magicinkjet.com

Phone:	1-800-628-8604
Fax:	1-800-861-4128

Disclaimer: Information presented in this product sellsheet is intended to offer a useful reference in selecting media for your output. No media warranties are implied unless specifically mentioned. Printer and / or ink changes may affect results. The most current product information may be found at www.magicinkjet.com.

Date: September 2012

PROTECT 10 MIL LAMINATION FILM

Product Description

PROTECT 10 mil is a textured, pressure sensitive vinyl, over lamination film for graphic protection. It is ideal for POP displays, tradeshows graphics and retail advertising and is compatible with most Magic® products. Pairing PROTECT 10 mil with Magic's popular POS PRO line is suggested.

Advantages

Embossed texture
Anti-glare surface
Indoor and outdoor based on application
Cost effective compared to polycarbonate

Compatibility

Most inkjet media
Not recommended for heavy textured inkjet media such as canvas

Physical Properties

Caliper Of Film / Liner	10 mil (254 microns)/4.6 (116 microns)
Gloss (60˚)	10
Minimum Application Temperature	40˚F
Adhesive	Permanent acrylic
Peel force (stainless steel)	3.0 lbs/ in
Outdoor Life Expectancy	1 year

Guidelines

Surface Preparation	Ensure graphic is completely dry before over lamination. Pretest material compatibility.
Finishing	Use minimal brake tension or laminator to avoid curl. When used in conjunction with outdoor media, including banner products, edge sealers or encapsulation is recommended to avoid wicking. Folding of material is not recommended.
Storage	Temperature: 72˚F ± 5˚F (22˚C ± 3˚C); Relative Humidity: 35% – 65%, store in original poly bag
Shelf Life	6 months under recommended storage conditions

DISPLAY FILMS
Magic® SBL-7

7 Mil Polyest Backlit Film for Aqueous, Solvent, Eco, Latex & UV Cure

Making all Great Images Count

MARKET APPLICATIONS

- High quality, promotional indoor and outdoor backlit signage
- Backlit tradeshow displays
- Backlit displays
- Light box graphics and kiosks

PRODUCT DESCRIPTION

- 8.0 mil (coated), semi-opaque, one-side matte polyester
- Front print, front view product
- For aqueous, solvent, eco-solvent , UV cure & Latex printers.
- Durable, tear-resistant

GENERAL AVAILABILITY

SBL-7	Part #
36" x 20'	66628
36" x 100'	66629
42" x 100'	67049
50" x 100'	66630
50" x 300'	66627
54" x 100'	66870
54" x 500'	70853*
60" x 100'	66872

Core=3 inch w/ 2" adapter
*6" Core

FEATURES & BENEFITS

- Front print, front view, satin backlit
- High image resolution and vivid color
- Pigmented inks provide best long-term UV fade and water resistance when using aqueous inks.
- For aqueous, solvent, eco-solvent, latex & UV cure printing
- Lamination with encapsulated is the best way to ensure complete water fastness: cold pressure laminates are recommended
- Recyclable

MEDIA COMPATIBILITY

SBL-7 is compatible with most aqueous solvent and eco-solvent ink, latex and UV cure printing systems – including HP, Epson, Canon, Mimaki, Mutoh, Seiko, Vutek, Scitex, Nur, Roland, etc.

* For complete Magic® product set, refer to Magic Printer Compatibility Chart under Technical Support on www.magicinkjet.com.

* For additional product details – including printer settings and lamination guidelines – see Application Guide under Tech Support of www.magicinkjet.com

* For ICC profile availability, see www.magicinkjet.com

Phone: 1-413-539-5731
           1-800-343-0818

Disclaimer: Information presented in this product sell sheet is intended to offer a useful reference in selecting media for your output. No media warranties are implied unless specifically mentioned. Printer and / or ink changes may affect results. The most current product information may be found at www.magicinkjet.com.

Date: July 2012

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www.magicinkjet.com

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866 971-1008

SBL-7
7 mil Polyester Backlit Film

MAGIC ® SBL-7 is a bright white 7 mil polyester backlit film for use with aqueous, solvent, eco-solvent, latex and UV cure inks. SBL-7 is a backlit film recommended as a front print and viewing film where high density can be achieved. It is ideal for backlit signage applications, and provides maximum transmitted and reflected ink density ensuring vivid color and high image resolution. SBL-7 is suitable for both indoor and outdoor light box graphics and kiosks; has excellent scratch resistance, and does not require lamination.

PHYSICAL PROPERTIES

Caliper of Coated Product	8.0 mi / 203 microns
Caliper of Base Film	7.0 mil / 178 microns
Opacity	67%
Gloss of Print Side (60°)	1.4 (matte)
Gloss of Film Side (60°)	136
Whiteness (white backing)	95
Optimum Printing Environment	70°F (30-70% RH)
Fire certificate	Incompliance with Germany B1 fire regulations testing

APPLICATIONS GUIDELINES

Imaging: The print needs to be front imaged and viewed from the image side. The print side is the matte side and it is wound to the outside of the roll.

Printer & Ink Compatibility: SBL-7 may be printed with Hewlett-Packard Designjet®, Canon iPF series, ColorSpan® Displaymaker's and piezo water-based systems such as Epson. It is recommended to use pigment inks. Although dye-based inks provide a higher color gamut, ink fade can occur. Using water-based pigments will yield outstanding print quality for use with either reflective or transmitted light. SBL-7 may also be printed in most solvent and eco-solvent printers such as: Mimaki JV3, Mutoh Toucan, Vetek, Nur, Roland Versa Camm, Roland SolJet, etc. SBL-7 is also compatible with HP Latex and UV Cure print systems.

Printer Settings: To optimize print quality, aqueous printers should be set for the highest print quality. The maximum ink saturation level for NovaJet and ColorSpan prints is 300%. The media selection is "Heavy Weight Coated Paper" for the HP Designjet series printers. "Super" and "bi-directional" are the printers settings for water-based piezo wide format printers. Dry-time will vary depending on ink type and the ink saturation level used. For solvent / eco-solvent, 720 dpi will offer the best results. 540 X 360 also offers good output. Optimized printer settings will vary from printer manufactures. 45° C (115°F) is a good starting point for pre and post heaters.

Water Resistance: Aqueous and solvent pigment inks provide the best long-term UV fade and water resistance. Dye-based inks have a moderate level of water resistance. Condensation in a light box will not affect the image. Lamination is not required but is recommended when an image will be exposed to repeated moisture or physical handling or when prolonged product life is needed. With additional protective glass or over-laminate, you can expect expanded durability for up to1 year outdoors. SBL-7 should be installed with the UV stable laminate side facing out.

FINISHING RECOMMENDATIONS

Image Protection: Due to the water-fast coating, lamination is not required. Over-laminates will protect the image from physical damage if image is unprotected by glass. Cold pressure laminates should be used. When using heat activated laminates, it is recommended to encapsulate, leaving 1/8" safe edge around the entire graphic to ensure complete water-fastness.

Lighting: Viewing with reflected or transmitted light yields outstanding image contrast and color vibrancy.

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PET Disposal by recycling of ink jet media is the preferred method. Where recycle markets do not exist, disposal by landfill or an approved incinerator is acceptable. See Magic Recycle Bulletin @ www.magicinkjet.com

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800 343 0818
www.magicinkjet.com

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DISPLAY FILMS
Magic® SCF-7

Solvent Clear Film for Solvent, Eco-Solvent, HP Latex and UV Cure Print Systems.

Making all Great Images Count

MARKET APPLICATIONS

- Proofing overlay and graphic applications
- Film positives in silkscreen application
- Window displays, tradeshow graphics, POP displays

PRODUCT DESCRIPTION

- 6.5 mil, clear, gloss polyester film for solvent and eco-solvent printers.
- Print side is the smooth side
- Excellent image quality
- Outstanding high black density
- Ideal for making film positives for screen printing, graphic overlays, clear signage as well as window displays, tradeshow media, point-of-sale and kiosk designs

GENERAL AVAILABILITY

SCF-7	Part #
30" x 10'	71008
30" x 100'	70973
54" x 100'	70974
54" x 200'	70377
54" x500'	*70855
60" x 100'	70289
60" x 500'	*70856

Core= 3 inch
* 6" cores

FEATURES & BENEFITS

- Solvent and eco-solvent printer compatibility
- Polyester film for smoothest base uniformity and highest image resolution
- Outstanding, high density black – making it a perfect solution for film positives in screen-printing applications
- Water-resistant properties
- Recyclable

MEDIA COMPATIBILITY

Designed for compatibility with most solvent and eco-solvent ink jet printing systems – including Mimaki, Mutoh, Seiko, Vutek, Scitex, Nur, Roland, Hewlett-Packard, etc. Also compatible with HP Latex and UV Cure printing systems.

* For complete Magic® product set, refer to Magic Printer Compatibility Chart under Technical Support on www.magicinkjet.com.

* For additional product details – including printer settings and lamination guidelines – see Application Guide under Tech Support of www.magicinkjet.com

* For ICC profile availability, see www.magicinkjet.com

Phone: 1-800-628-8604
Fax: 1-800-861-4128

Disclaimer: Information presented in this product sell sheet is intended to offer a useful reference in selecting media for your output. No media warranties are implied unless specifically mentioned. Printer and / or ink changes may affect results. The most current product information may be found at www.magicinkjet.com.

Date: July, 2012

SCF-7

7 mil Polyester Clear Film for Solvent, Eco Solvent, Latex & UV Cure Systems

MAGIC@ SCF-7 is a glossy finish 6.5 mil clear film designed for Solvent, Eco-Solvent, HP Latex and UV Cure printers. SCF-7 has excellent image quality and can be used as overlays, clear signage, presentations, and outstanding high black density for making film positives for screen printing. SCF-7 may also be used in such applications as window displays, trade show media, point of sale, P.O.P and kiosk designs.

PHYSICAL PROPERTIES

Caliper of Coated Product	6.5 mi / 165 microns
Basis Weight	202 g/m^2
Transmission	92%
Haze	4.98
Clarity	96.3
Optimum Printing Environment	70°F (30-70% RH)

APPLICATIONS GUIDELINES

Imaging: The print side is smooth and would to the outside of the roll.

Printer & Ink Compatibility: SCF-7 is compatible with Solvent and Eco-Solvent printers such Vutek®, Mimaki®, Mutoh®, Seiko®, Scitex®, Nur®, Roland®, and Hewlett-Packard®. SCF-7 is also compatible with HP Latex and UV Cure print systems.

Printer Settings: To optimize print quality on the solvent ink jet printers, 720 dpi bi-direction will offer the best results. When using SCF-7 for screen positives; mirror the image when printing. This allows the image side of SCF-7 to be in direct contact with the positive (away from the lights) when exposing your positive. It is important to protect the imaged side of SCF-7 from heat as the ink receiving coating may separate from the film when exposed to extreme heat. Recommended Printer Heat Setting: pre-heat <38° C, print-heat <34° C, post-heat <38° C.

Water Resistance: SCF-7 is water resistant; the back side of the film has limited water resistance. Lamination is recommended when an image will be exposed to repeated physical handling or when prolonged product life is needed.

Material Storage: To protect unused material, store material in its original packaging, in the poly bag at 72°F (+ / - 5 degrees F)

FINISHING RECOMMENDATIONS

SCF-7 may be overlaminated with most cold laminates and low temperature laminates, but cold are preferred and give better adhesion results. Make sure the images are completely dry prior to laminating. When the film is overlaminated with heavy gauge laminates and either mounted to a board or encapsulated, overlap the image with a 0.25 inch safe edge of laminate. Use laminates of equal gauge when encapsulating to prevent image curl.

RECYCLING AND DISPOSAL

Disposal by recycling of ink jet media is the preferred method. Where recycle markets do not exist, disposal by landfill or an approved incinerator is acceptable. See Magic Recycle Bulletin @ www.magicinkjet.com

PHOTOBASE PAPERS:
Magiclée® Siena 200L & 200G

Resin-Coated, Microporous Photobase Papers
Lustre & Glossy

Making all Great Images Count

www.magicinkjet.com

MARKET APPLICATIONS

- Art and Photo Reproduction
- Proofing
- Signage
- Posters
- POP Displays

PRODUCT DESCRIPTION

- 8 mil, resin-coated photobase paper
- Microporous coating
- Lustre or gloss surface
- Bright white
- Thermal and piezo printer compatible

GENERAL AVAILABILITY

Siena 200L	Part #	Siena 200G	
17" x 100'	66245	17" x 100'	66246
24" x 10'	70398	24" x 10'	70396
24" x 100'	64070	24" x 100'	64077
36" x 100'	64071	36" x 100'	64078
42" x 100'	64072	42" x 100'	64079
44" x 100'	64073	44" x 100'	64080
50" x 100'	64074	50" x 100'	64081
54" x 100'	64075	54" x 100'	64082
60" x 100'	64076	60" x 100'	64083

Core = 2"

Features & Benefits

- Instant-dry on most printers
- Superior pigment color gamut
- Excellent ease of handling during printing and lamination
- Premium feel – medium weight

MEDIA COMPATIBILITY

Can be used on most thermal and piezo water-based printing systems – including Epson Stylus®, Hewlett-Packard Design Jet®, and Canon iPF series.

Pigment inks are recommended for longer lasting images.

* For complete Magiclée® product sets, refer to the Printer Compatibility Chart under Technical Support on www.magicinkjet.com.

* For additional product details – including printer settings and lamination guidelines – see Application Guide under Tech Support of www.magicinkjet.com

* For ICC profile availability, see www.magicinkjet.com

Phone: 1-413-539-5731
Fax: 1-800-861-4128

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Date: December 2010

PHOTOBASE PAPERS:
Magiclée® Siena 250L & 250G

Resin-Coated, Microporous Photobase Papers
Lustre & Glossy

Making all Great Images Count

www.magicinkjet.com

MARKET APPLICATIONS

- Art and Photo Reproduction
- Proofing
- Signage
- Posters
- POP Displays

PRODUCT DESCRIPTION

- 10 mil, resin-coated photobase paper
- Microporous coating
- Lustre or gloss surface
- Bright white
- Thermal and piezo printer compatible

GENERAL AVAILABILITY

Siena 250L		Siena 250G	
Rolls	Part #	Rolls	Part #
17" x 100'	70133	17" x 100'	70132
24" x 10'	70401	24" x 10'	70400
24" x 100'	70135	24" x 100'	70134
36" x 100'	70137	36" x 100'	70136
42" x 100'	70139	42" x 100'	70138
44" x 100'	70141	44" x 100'	70140
50" x 100'	70143	50" x 100'	70142
54" x 100'	70145	54" x 100'	70144
60" x 100'	70147	60" x 100'	70146

Core = 3" core with a 2" adapter

Features & Benefits

- Vibrant colors
- Instant-dry images
- Laminate quickly and efficiently
- One SKU for dye, pigment, thermal, and piezo printers

MEDIA COMPATIBILITY

Can be used on most thermal and piezo water-based printing systems – including Epson Stylus®, Hewlett-Packard Design Jet®, and Canon iPF series.

Pigment inks are recommended for longer lasting images.

* For complete Magiclée® product sets, refer to the Printer Compatibility Chart under Technical Support on www.magicinkjet.com.

* For additional product details – including printer settings and finishing guidelines – see Application Guide under Tech Support of www.magicinkjet.com

* For ICC profile availability, see www.magicinkjet.com

Phone: 1-800-628-8604
Fax: 1-800-861-4128

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Date: April 2011

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Magiclée

Siena 200L & Siena 200G

RESIN COATED PHOTOBASE PAPER

Siena 200 products are 8 mil, high quality, resin-coated photobase papers with a universal microporous coating available in both luster and gloss finishes. The Siena photobase papers are designed to provide instant dry times on most high speed thermal and piezo waterbased ink jet systems with dye and pigment inks. Product features include superior pigment color gamut and ease of handling during printing and lamination. Applications include photo reproductions, signage, posters, and POP displays.

PHYSICAL PROPERTIES

Gloss (60°) . . . . 50% (Gloss) . . 17% (Luster)	Whiteness 106
Caliper . . . . 8.0 mil . . . .200 microns	Brightness 92
Basis Weight . . . 202 g/m^2 . . . 5.9 oz/yd^2	% Opacity 95

APPLICATION GUIDELINES

Printer and Ink Compatibility: Siena 200 products may be used on most thermal and piezo water-based printing systems such as: Hewlett-Packard, Epson Stylus, and Canon® iPF series. Both dye and pigment inks may be used. Ink dry times will be dependent on ink saturation level and humidity.

Printer Settings: To optimize print quality, printers should be set for the highest print quality or photobase print mode. The recommended media settings are: "Durable Gloss UV in HP5000 series. For the HPZ6100, Vivera; ID Glossy, Photo, best. For the HPZ3100, Vivera w/ RGB; Glossy, Photo, best. For Epson 7800 PK/K3/UC; Prem Glossy 250, fast, fine. For Canon 6000's, Lucia F series; Glossy Photo, std. Use Glossy Photo/std for Canon 8000 series. Ink saturation limits can vary due to ink types, ink drop volume and humidity, so ink saturation levels should be optimized for specific printer, ink and software combinations. Over saturation will result in paper cockle and possibly head strike. Siena 200 products work best in an environment between 18-30 C or 65-86 F and between 30-70%RH. Longer ink dry times will occur at higher RH environments.

Color Calibration: ICC color profiles may be obtained for selected RIP, ink and printer combinations on the magicinkjet web page. Profile solutions are continually being generated, so consult the web page for current availability.

Image Stability: Pigment inks offer a more stable image from light & oxidative fade. Due to the nature of microporous coatings, dye-based ink images will fade quicker than images printed on non-microporous coatings. The fade can be avoided if prints are laminated immediately after printing, which prevents the oxidation related fade.

Material Handling & Storage: Careful handling after printing is recommended. Although the material is not intended for outdoor use, the coating does offer limited water resistance.Unimaged material should be stored at 72°F (+/-5°) for no longer than 1 year in the original packaging.

FINISHING RECOMMENDATIONS

Lamination: This product can be overlaminated with most cold laminates and low temperature laminates, but cold are preferred and give better adhesion results. When the paper is overlaminated with heavy gauge laminates and either mounted to a board or encapsulated, overlap the image with a 0.25 inch safe edge of laminate. This will seal the paper, preventing moisture absorption and paper splitting from the undue stress of the heavy gauge laminating films. Use laminates of equal gauge when encapsulating to prevent image curl. Overlaminating will decrease the rate at which the images fade, but due to the optical characteristics of the material, dye-based ink density may appear less vibrant when laminated. Lamination can be done immediately after printing as long as the image is dry to touch, where inks do not smudge or smear to the touch. *Avoid direct contact of image side to lamination rolls as sticking may occur.* Cold, pressure-sensitive adhesives typically provide the most aggressive bonds and are recommended for use with this product.
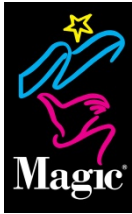
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Siena 200 LPSA & Siena 200 GPSA

RESIN-COATED ADHESIVE-BACKED PRESSURE SENSITIVE PHOTOBASE PAPERS

Siena PSA products are adhesive-backed resin-coated photobase available in both luster and gloss finishes. The Siena PSA photobase papers are coated with a universal microporous coating that provides instant dry times on most high speed, waterbase thermal and piezo inkjet printer systems, with dye or pigment inks. You can generate the same high quality images that can be laminated quickly when using Siena 200 photobase papers, while eliminating a production step. Siena PSA photobase's provide you with a product solution to increase your production efficiency.

PHYSICAL PROPERTIES

Gloss (60˚) . . . . .50% (Gloss) . . 17% (Luster)	Caliper of Polyester Liner . . . . . . 1 mil
Whiteness 106	Adhesive Peel Force on Stainless Steel . . . . . .1.75 lb/in
Caliper of Photobase . . 8 mil	Adhesive Type . . . . Permanent Solvent

APPLICATION GUIDELINES

Printer and Ink Compatibility: Siena 200 PSA products may be used on most waterbase thermal and piezo printer systems such as Epson Stylus, Hewlett-Packard, and Canon® iPF series. Both dye and pigment ink may be used. Ink dry times will be dependent on ink saturation level and humidity.

Printer Settings: To optimize print quality, printers should be set to the highest print quality or photobase print mode. The recommended media settings are: "Durable Gloss UV" in the HP5000 series, "High Gloss Photo" for HP1000/2000/3000 series. For HPZ6100 Vivera; ID Gloss, Photo, best. For HPZ3100 Vivera w RGB; ID Glossy photo, best. For Epson 7800 PK/K3/UC; Prem Glossy 250, fast, fine. For Canon 6000's, Lucia F series; Glossy Photo, std. Ink saturation limits can vary due to ink types, ink drop volume and humidity, so ink saturation levels should be optimized for specific printers, ink and software combinations. Over saturation will result in paper cockle and possible head strike.

Indoor use: This product is recommended for indoor use.

Material Handling: Handle the media by the edges or wear cotton gloves to avoid fingerprints. It is not recommended to fold or to excessively handle the media to prevent damage to the media coating. If you roll the image, roll the image with the graphic facing in to protect your print. Siena 200 PSA products work best in an environment between 18-30°C or 65-86°F and between 20-80%RH. Longer ink dry times will occur at higher humidity environments. Always place unused media back in its original packaging for optimal storage conditions.

Image Stability: Lamination is recommended, especially when using dye-based ink. Air quality may substantially accelerate fade if the print is not laminated.

FINISHING RECOMMENDATIONS

Surface Preparation: Always ensure that the receiving surface is clean, free of dust, dirt or cleaner residues. Painted metal, glass and standard graphic mounting boards surfaces should be cleaned with standard glass cleaners or isopropyl alcohol. Poor surface conditions will cause adhesive loss or failure.

Recommended Application Surfaces: Stainless steel, glass, acrylic, ABS, polycarbonate, Plexiglas®, Foam Core®,and Sintra® The product is designed for smooth, flat indoor surfaces. Textured surfaces and wood tend to promote poor adhesion. Always pretest your specific substrate to actual application.

Installation Techniques: For best results, use a laminator to mount material to mounting boards and for permanent structures. A professional installer should be used. Material is not repositionable during or after installation. The use of water, to aid in adhesive installation, is not recommended. Water will damage the surface.

Laminating: To give added surface protection from dirt and abrasion, a cold pressure-sensitive overlaminate is recommended. Heat activated laminates should not be used because the heat can degrade the adhesive peel strength. Avoid direct contact of image side to lamiation rolls.

Removal: Removal may require physical scraping or use of solvents as this paper-based product has a strong solvent-based permanent adhesive. Application of these products to dry wall is not recommended due to the potential difficulties in removal.

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PHOTOBASE PAPER WITH PSA
Magiclée® & Magic® Siena 200L PSA & 200G PSA

Resin-Coated, Microporous Photobase Papers
Lustre & Glossy with Pressure-Sensitive Adhesive back

Making all Great Images Count

www.magicinkjet.com

MARKET APPLICATIONS

- Photo Reproductions
- Signage
- Posters
- POP Displays

PRODUCT DESCRIPTION

- 8 mil, resin-coated photobase paper with pressure-sensitive adhesive back
- Microporous coating
- Lustre or gloss surface
- Bright white
- Thermal and piezo printer compatible
- Indoor use

Features & Benefits

- Instant-dry images on most high speed water-based thermal and piezo ink jet printer systems
- Dye or pigment inks
- A cold PSA laminate may be used
- PSA backing can eliminate a production step

MEDIA COMPATIBILITY

Siena 200G/200L PSA products can be used on most water-based thermal and piezo printer systems with both dye and pigment inks. See product applications guide for more specific recommendations on printers, printer mode settings and ink saturation levels (200-350%, depending on printer model).

* For complete Magiclée® and Magic® product sets, refer to the Printer Compatibility Chart under Technical Support on www.magicinkjet.com.

* For ICC profile availability, see www.magicinkjet.com

Phone: 1-800-628-8604
Fax: 1-800-861-4128

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Date: March 2010

GENERAL AVAILABILITY

Siena 200L PSA	Part #	Siena 200G PSA	Part#
24" x 10'	70399	24" x 10'	70397
24" x 50'	66200	24" x 50'	66201
36" x 50'	65373	36" x 50'	65817
42" x50'	66172	42" x 50'	66176
50" x 50'	65374	50' X 50'	65818
60" x 50'	69785	60" x 50'	69783

Core = 2"

Magiclée®

Siena 250G & Siena 250L

NEXT GENERATION RESIN COATED PHOTOBASE PAPER

Siena 250 products are the latest next-generation resin coated photobase papers for high speed, thermal and piezo waterbased inkjet printer systems, with dye and pigment inks. The universal coating provides vibrant colors and instant dry times, even with pigment inks. These products will produce long-lasting, stable, ink jet images never before possible with dye-only compatible media. Siena 250 photobase papers are available in both gloss and lustre finishes.

PHYSICAL PROPERTIES

Gloss (60˚) . . . . 43 (Gloss) . . 21 (Lustre)   Whiteness 108

Caliper . . . . 10 mil . . . . . 255 microns   Brightness.....................92

Basis Weight . . . 255 g/m^2 . . . 7.5 oz/yd^2 % Opacity 95

APPLICATIONS GUIDELINES

Printer and Ink Compatibility: Siena 250 products can be used on most thermal and piezo water-based printing systems such as: Hewlett-Packard DesignJet®, Epson Stylus®, and Canon® iPF series. Both dye and pigment inks can be used. Ink dry times will be dependent on ink saturation level and humidity.

Printer Settings: To optimize print quality, printers should be set for the highest print quality or photobase print mode. The recommended media settings are: "Durable Gloss UV" in HP5000 series, "Premium Glossy Photo/best" for HPZ series, "Premium Glossy Photo 250/1440dpi/fast/fine" for Epson series, and "Glossy Photo/std" for Canon 8000 series. Ink saturation limits can vary due to ink types, ink drop volume and humidity, so ink saturation levels should be optimized for specific printer, ink and software combinations. Over saturation will result in paper cockle and possibly head strike. Siena 250 products work best in an environment between 18-30 ˚C or 65-86 ˚F and between 30-70%RH. Longer ink dry times will occur at higher RH environments.

Image Stability: Color stability is strongly dependent on the ink used. Images are affected by temperature, humidity, indoor daylight and ozone. The overall life expectancy of an image will be determined by the environment factor that is more destructive than the storage and use conditions. Unlaminated image stability, in general terms, is shown in the chart below.

Application	lux/hr per day	Printers	Years
Living room	300/12	Epson 7800/ 9600	30
		Canon iPF 5000/ HPZ3100	40
Light Box	600/12	Epson 7800/ 9600	1.5
		Canon iPF 5000/ HPZ3100	2
Exhibition	1000/12	Epson 7800/ 9800	8
		Canon iPF 5000/ HPZ3100	12

FINISHING RECOMMENDATIONS

Lamination: This product can be overlaminated with most cold laminates and low temperature laminates, but cold are preferred and give better adhesion results. When the paper is overlaminated with heavy gauge laminates and either mounted to a board or encapsulated, overlap the image with a 0.25 inch safe edge of laminate. This will seal the paper, preventing moisture absorption and paper splitting from the undue stress of the heavy gauge laminating films. Use laminates of equal gauge when encapsulating to prevent image curl. Overlaminating will decrease the rate at which the images fade, but due to the optical characteristics of the material, dye-based ink density may appear less vibrant when laminated. Lamination can be done immediately after printing as long as the image is dry to touch, where inks do not smudge or smear to the touch. Avoid direct contact of image side to lamination rolls as sticking may occur. Cold, pressure-sensitive adhesives typically provide the most aggressive bonds and are recommended for use with this product.

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Popular Sign and Banner Applications for Point-of-Sale Graphics

Although it may seem like a daunting task, choosing the right sign and banner supplies are critical to producing effective POS displays that meet requirements for image quality and durability. Below is a tip sheet that outlines the most promising types of POS applications and provides advice on what sign and banner supplies to use for the creation of high-quality POS applications.

Roll-Up Displays
Although there are various types of media that can be used for these portable display systems, it is critical for the material to feature an opaque substrate with a block-out layer to prevent show-through. Materials used to construct roll-up displays should also be flexible for portability.

Another key factor to consider with roll-up displays is edge curl, which looks unprofessional and diminishes the message conveyed on the sign. Since vinyl, fabrics and other soft substrates are prone to edge curl, an opaque film that lies perfectly flat should always be used. Common product constructions for roll-ups include 8 mil block-out polyester film, polypropylene or vinyl banner materials with block-out films.

When it is time to laminate the roll-up display, thinnest laminates are the best choice. Not only does lamination change the image gloss level of the roll-up display, but it also adds durability. Use liquid coatings, very thin pressure-sensitive adhesives or hot melt laminates.

Fabric Signs
Fabric signs have experienced a recent increase in popularity because they are more environmentally-friendly than vinyl materials and feature a softer look and feel.

Dye sublimation processes present the best avenue for POS fabric applications. The sublimation process allows the inks to become part of the fabric – translating into increased durability, as well as the richest color and the softest texture.

For best results, dye sublimation should be performed on white or light-colored surfaces that are specialty-coated or polymer-coated to accept inks. Sublimation conditions vary depending on the heat transfer press being used; so optimal temperature, pressure and dwell time conditions should be based on individual heat presses.

Dye sublimation papers used for high quality sublimation transfers are designed to print a wide gamut of vibrant colors, while enhancing the release of ink during the sublimation

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process. These specialty media choices also help to produce optimal results and ensure product quality by lowering ink use and expense.

The downside of dye sublimation is that it requires special printing and heat transfer equipment. In cases where a print shop may not have this specialized equipment there are direct print textile materials available for both standard solvent inkjet and aqueous inkjet printers. There are a wide variety direct print textiles ranging from very sheer fabrics to heavy flag material. There are even some adhesive back textiles that offer a uniquely soft look and feel for a number of mounted POS display applications.

Pop-Up Stands
Pop-up stands are no longer just for tradeshows; offering a great solution for in-store environmental graphics or display back drops. The final construction of pop-up stands should target a composition of 20 mils thick, which generally consists of an opaque backing layer, imaging layer and textured laminate.

When constructing a pop-up stand, the panel should be both heavy enough to stand firm in the framing and durable enough to be rolled up and shipped to retail outlets.

Backlit Displays
As with the opaque displays, sign makers should use matte to textured, lustre finishes for the construction of backlits, which are commonly imaged on polyester or polycarbonate-based films. Polycarbonates are reverse printed and then viewed through the film or from the non-print side. Polycarbonate films are available with a textured finish on the viewing side of the film.

Polyester backlit films are also becoming increasingly popular among users of solvent printers. There are four parameters to consider when producing graphics for light projection displays: calculation (amount), location (where), application (how) and duration (longevity). This information will determine the best methodology for producing the graphic.

Semi opaque materials present the ideal form of media for POS displays because they ensure that there is enough translucency for the graphic to look great under the reflective lighting on the retail floor. The best choices for in-store backlit displays are white films or polypropylene media that offer 90% opacity. Films that feature 40% to 50% opacity are preferred options in lower light environments.

For more information on sign and banner supplies from InteliCoat, call 1-800-628-8604 or email jchagnon@intelicoat.com. You may also view a clip from our POS Products and Applications webinar on the InteliCoatTech YouTube channel at http://youtu.be/HlCPUs9dAF8.

SLEEK™
PREPASTED WALLCOVERING

SLEEK™ Magic® Sleek is a 6.7 mil high performance pre-pasted wallcovering reinforced with polymer for strength and durability. The product is optimized for UV and latex inks. SLEEK™ has a bright white, ultra-smooth, matte printable surface allowing for pristine imaging. SLEEK™ is a fiber-based, 10% PCW substrate, making it a perfect alternative to vinyl. SLEEK™ is ideal for murals, wallcoverings, POP displays and decals and meets ASTM-E84 for smoke generation and flame spread.

PHYSICAL PROPERTIES

Basis Weight:	166 g/m2	Optimum Print RH:	20-60%	Tensile Strength (MD/CD):	45/37 lbs./in
Caliper:	6.7 mils (243 microns)	Optimum Print Temp.:	70°F (21°C)	Elongation (MD/CD):	TBD
% Opacity:	96	Flame Spread	Class A	Tear Strength (MD/CD):	120/125
Whiteness:	80.68	Classification:	Class A**	Wet Expansion:	TBD
Brightness:	86.73	**Based on ASTM E84	Test method	Sheffield Smoothness	15
Gloss (60 degrees)	4.6				

APPLICATIONS GUIDELINE

Printer & Ink Compatibility: SLEEK™ may be printed on most latex & UV Cure print systems.
Printer Settings: For profiles and recommended settings visit our website at www.magicinkjet.com.
HPL26500: Use magic profile or HP profile Blue-Back Billboard Paper, 60-2bpp dpi, 10P BI-direction.

WALLCOVERING INSTALLATION AND REMOVAL GUIDELINES

Wall Preparation: The surface should be cleaned, free of dust, dirt or cleaner residues, smooth and primed for optimum results. Do not apply wall covering to a wall-covered surface.

Paste Information: Apply water on back of each panel/strip with a roller or soak each panel/strip in a wallpaper tray to activate adhesive. On the paste side fold the wallpaper like a "Book" Avoid creasing the wallpaper.

Application: Unfold one side of the panel/strip and position the paste side along the top of the surface being covered. When positioned properly, unfold the balance of the panel/strip and smooth downward and outward on the surface with a broad smoothing brush or damp sponge. Small bubbles will dissipate on their own as the surfaces dries.
You are ready to install the next panel/strip. It is **recommended** to overlap and double cut the seams and remove the trim to create a butt seam.

Removal instruction: Begin at the top of the wallpaper and carefully separate a full width strip about 8" down from the top away from the surface. If beginning the removal process you are unable to separate the paper from the wall, apply water with a damp sponge to moisten the paper surface. With both hands, slowly pull the paper at the downward angle.   Any remaining adhesive can be removed with a damp sponge.

RECYCLING AND DISPOSAL

Disposal by recycling of ink jet media is the preferred method. Where recycle markets do not exist, disposal by landfill or an approved incinerator is acceptable. See Magic Recycle Bulletin @ www.magicin

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WALLCOVERING
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MARKET APPLICATIONS

- Digital Pre-Pasted Wallcovering
- Murals
- POP Displays

PRODUCT DESCRIPTION

- Bright white
- 166 gsm (6.7 mils) Smooth, Matte surface
- High Performance Digital Wallcovering
- Pre-Pasted
- PVC-Free, Strippable

GENERAL AVAILABILITY

Sizes	Part #
24" x 15'	72197
54" x 150'	72198

FEATURES & BENEFITS

- Compatible with UV cure and latex inks.
- Fiber based, PVC free for strength and durability.
- Washable/Scrubbable surface perfect for light to moderate traffic areas.
- Made of 10% PCW.
- FSC certified and complies with REACH and ROHS.
- Class "A" rating for both smoke generation and flame spread by the ASTM E-84 Standards.

MEDIA COMPATIBILITY

Sleek is compatible with most UV Cure and Latex ink jet printing systems.

* For additional product details – including printer settings and finishing guidelines – see Application Guide under Tech Support of www.magicinkjet.com

* For ICC profile availability, see www.magicinkjet.com

Phone: 1-800-628-8604
Fax: 1-800-861-4128

Disclaimer: Information presented in this product sellsheet is intended to offer a useful reference in selecting media for your output. No media warranties are implied unless specifically mentioned. Printer and / or ink changes may affect results. The most current product information may be found at www.magicinkjet.com.

Date: January 2014

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SLEEK

6.7 mil 10% PCW, pre-pasted wallcovering

Murals, POP displays

Bright white, smooth, matte surface

Fiber based, PVC free for strength and durability, strippable

Easy installation — spray back with water, rub over with damp sponge and apply to wall

Washable/scrubbable surface perfect for light to moderate traffic areas

Class "A" rating for both smoke generation and flame spread by the ASTM E-84 Standards

PART	SIZE	LIST
72197	24"X15'	$9.51
72198	54"X150'	$213.92

COMPATIBILITY   U UV Cure   L Latex

Magic®

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POLYPROPYLENE WITH LOW-TACK PSA
STICK 2 by Magic® Brand

7 Mil Repositionable Polypropylene with low tack PSA

Making all Great Images Count

MARKET APPLICATIONS

- Posters
- Retail displays
- Window displays
- Short term residential graphics.

PRODUCT DESCRIPTION

- 7 mil repositionable banner with low tack pressure sensitive adhesive.
- Repositionable, removable & may be reapplied to some surfaces.
- Low cost indoor & outdoor signage
- Universal ink jet receptive coating
- Product not to be applied to highly porous, fibrous surfaces.

GENERAL AVAILABILITY

STICK 2	Part #
24" x 10'	70875
24" x100'	70874
36" x 100'	70813
36" x 500'	*70862
42" x 100'	70814
50" x 100'	70815
50"x 500'	*70863

Core = 3 inch w/ 2" adapter
*6" core

FEATURES & BENEFITS

- Compatible with most water-based thermal & piezo inks
- Compatible with most solvent, eco-solvent and UV cure ink
- Water proof with pigment inks
- Repositionable, removable, & reapply

MEDIA COMPATIBILITY

Can be used on Hewlett-Packard DesignJet® series, Epson Stylus® Pro, and Canon iPF series printers.

In addition, STICK 2 can be used in most solvent, eco-solvent and UV cure ink jet printing systems such as those manufactured by Vutek, Mimaki, and Mutoh.

* For complete Magic® product set, refer to Magic Printer Compatibility Chart under Technical Support on www.magicinkjet.com.

* For ICC profile availability, see www.magicinkjet.com

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Date: July 2012

MAGIC® APPLICATIONS GUIDE

STICK2

Repositionable Polypropylene Low-tack Banner

STICK 2 by MAGIC® Brand is a repositionable banner with a low tack, pressure-sensitive adhesive that is repositionable, removable, and may be reapplied to some surfaces. STICK 2 has a universal coating that is compatible with most water-based thermal and piezo as well as solvent and eco-solvent wide format printers. This low cost product can be used indoors and outdoors for both short and long-term signage. STICK 2 is ideal for posters, retail displays, window displays, and short-term residential graphics.

PHYSICAL PROPERTIES

Total Caliper	10 mil
Liner Caliper	3 mil
Opacity	97%
Gloss	2.6
Brightness	98
Whiteness	110
Optimum Printing Environment	70°F (30-70% RH)

APPLICATIONS GUIDELINES

Special Features: STICK 2 is designed for indoor and outdoor signage. It is environmentally friendly towards rigid boards, in that some rigid boards can be recycled for multiple use due to the ease of reapplication. It is repositionable, removable and may be reapplied to some surfaces. STICK 2 is too aggressive for highly porous, fibrous surfaces. Rounded graphics are preferred as sharp edges may tear during liner removal. Refer to the STICK 2 Tips & Tricks technical bulletin on the magicinkjet.com web site.

Printer & Ink Compatibility: STICK 2 can be printed with Hewlett-Packard DesignJet® series, Epson Stylus Pro® series, and Canon iPF series, and other aqueous thermal and piezo systems. STICK 2 can be used in most solvent and eco-solvent ink jet printing systems such as Vutek, Mimaki, Mutoh, and Roland.

Color Calibration: ICC color profiles can be obtained for selected RIP, ink, and printer combinations on the web page; www.magicinkjet.com \

Water Resistance: Once print is completed, roll imaged (with image facing inward) onto a core until ready for use. Folding or creasing the image is not recommended. After use, the roll of STICK 2 should be stored at 72o F (+/-5o) and in its original packaging in the poly bag for no more than 1 year.

FINISHING RECOMMENDATIONS

Finishing: Let image dry 24 hours prior to finishing. Marabu® ClearShield may be applied to protect the surface from dirt and abrasions. Solvent based aerosol sprays should not be used. Always pretest your laminating method first.

Recommended Surfaces:
•painted dry wall •Plexi Glass •Gatorlite® Black •Gatorplast® black •painted metal •auto panels (short term) •non-painted metal •glass •plastic •textured walls •stainless steel •acrylic •polycarbonate •flat or curved surfaces •Sintra® board *not recommended for highly porous, fibrous surfaces

Surface Preparation: Always ensure that the surface is thoroughly cleaned, free of dust, dirt, and cleaner residues. Painted metal, glass, and standard graphic art mounting boards should be cleaned with standard glass cleaners or isopropyl alcohol. Most surfaces may be cleaned with a damp warm cloth. Painted surfaces should be painted with latex paint containing no waxes or silicone. Always pretest your application surface prior to installation.

Installation: Apply image at a minimum air and surface temperature of 50°F. Unroll the image and allow it to rest until it is flat. Peel back the top edge of the image and place in the desired location. Squeegee down with minimal pressure while removing the liner. Smooth out any wrinkles and bubbles while applying the image. Be careful not to stretch the image. If needed, the image may be gently removed and repositioned. The release liner should be saved for when the image is removed or moved to another location.

Removal: Remove slowly and lift at a 90°angle. An adhesive residue may remain on a very smooth surface. On these surfaces, use soapy warm water and a cloth to remove any adhesive, Isopropyl alcohol (IPA) or rubbing alcohol may be used. Always pretest first.

MAGIC® APPLICATIONS GUIDE

TB9
TYVEK® INDOOR/OUTDOOR INK JET BANNER

MAGIC®TB9 is a matte 9 mil polyolefin banner grade of TYVEK® that resists water and UV damage. This product is tear resistant, which makes it perfect for long-term indoor or outdoor banner applications. TB9 is designed for use with aqueous, solvent, eco-solvent, latex and UV cure print systems.

PHYSICAL PROPERTIES

Basis Weight	130 gm^2	Optimum Print RH:	20-60%	Tensile Strength (MD/CD):	868 / 959 lbs/in
Caliper:	9 mil / 228 microns	Optimum Print Temp.:	70°F (21°C)	Elongation (MD/CD):	21 / 26%
% Opacity:	96%	Flame Spread:	**Class A	Recommended Shelf Life:	1 yr
Whiteness/Brightness:	114 / 101	Minimum Exp. Temp:	10° F	Initial Tear Resistance M/CD	1080/840 lbs/in
Gloss (60°):	2.1			Outdoor life Expectancy*:	3 months
				Indoor Life Expectancy*	6 months

*Based on manufacturer's accelerated age testing. Results may vary based on usage.
**Based on ASTM E84 test method

APPLICATIONS GUIDELINES

Printer & Ink Compatibility: TB9 may be printed with aqueous, solvent, eco solvent, latex and UV cure print systems such as HP, Epson, Canon, Mimaki, Roland, Nur, Vutek, Mutoh and Nur. Although dye-based inks provide a higher color gamut, ink fade can occur. Use pigmented inks for longer lasting images.

Printer Settings: To optimize print quality, printers should be set for the highest print quality. The maximum ink saturation level for aqueous inks is 250%. Use media selection "Heavy Weight Coated Paper" for the most printers. "Super" and "bi-directional" are the printers settings for waterbased piezo wide format printers. Dry-time will vary depending on ink type and the ink saturation level used. For solvent / eco-solvent, the max ink saturation is 350%. Suggested heat settings: preheat 42° C, and 37° C post heat. ICC profiles may be obtained from our website at www.magicinkjet.com.

Water Resistance & Surface Protection: Pigmented inks provide the best long-term UV fade and water resistance. Dye-based inks have a moderate level of water resistance. Over-saturation can affect the waterfast properties. Use a vinyl PSA to protect the surface from dirt and abrasion. Note: Laminating one side can result in curl toward the laminated side.

FINISHING RECOMMENDATIONS

Tape and Stitched Hem: Using high-tack banner tape is preferred to sewing, as sewing can scratch the coating. If sewing, it is recommended that the non-laminated banners be stitched hem side up so that the sewing machine foot comes in contact with only the backside of the banner. For maximum reinforcement, a double stitched hem with a double lock stitch with a maximum of five stitches per inch and corner reinforcements are recommended.
Grommeting: Grommets should be placed in the hemline so that the grommet is through two layers. Corner grommets should be placed through the four overlapping layers. A reinforced corner is also recommended to increase durability.

RECYCLING AND DISPOSAL

Disposal by recycling of ink jet media is the preferred method. Where recycle markets do not exist, disposal by landfill or an approved incinerator is acceptable. See Magic Recycle Bulletin @ www.magicinkjet.com

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BANNERS
TB9
DuPont Tyvek®
For Aqueous, Solvent & Eco-Solvent, Latex and UV Cure Printers

Making all Great Images Count

Magic®

MARKET APPLICATIONS

- High Strength Indoor / Outdoor Banners
- Trade Show Graphics
- Sporting Events
- Promotions

PRODUCT DESCRIPTION

- 9 mil polyolefin
- Outdoor / Indoor Tyvek® banner
- Excellent tear resistance
- Non-glare matte finish
- Opacity: 96%
- Recyclable,

GENERAL AVAILABILITY

TB9	Part #
24" x 50'	28373
24" x 10'	70402
36" x 50'	15154
36" x 100'	37387
50" x 100'	37388

Note: 3" core w/ 2" adapter

FEATURES & BENEFITS

- Lightweight with the strength of a heavyweight
- Lightly textured surface
- Softer look and feel than vinyl banners
- High resolution imaging
- Ideal for indoor or outdoor applications
- Recyclable – more environmentally friendly product than vinyl.

MEDIA COMPATIBILITY

TB9 is made with a universal inkjet receptive coating designed for use in aqueous, solvent, eco-solvent, latex and UV cure printers.

* For complete Magic® product set, refer to Magic Printer Compatibility Chart under Technical Support on www.magicinkjet.com.

* For additional product details – including printer settings and lamination guidelines – see Application Guide under Tech Support of www.magicinkjet.com

* For ICC profile availability, see www.magicinkjet.com

Phone: 1-800-628-8604
Fax: 1-800-861-4128

Disclaimer: Information presented in this product sellsheet is intended to offer a useful reference in selecting media for your output. No media warranties are implied unless specifically mentioned. Printer and / or ink changes may affect results. The most current product information may be found at www.magicinkjet.com.

Date: July 2012

TB9UV

TYVEK® INDOOR/OUTDOOR INK JET BANNER

MAGIC® TB9UV is a 9 mil polyolefin banner grade of TYVEK® that resists water and UV damage. This product is tear resistant, which makes it perfect for long-term indoor or outdoor banner applications. TB9UV is designed for UV cure printing systems using flexible ink sets.

PHYSICAL PROPERTIES

Basis Weight............130g/m2
Caliper....................9 mil (230 microns)
Opacity...................96%

Brightness. 101

Gloss (60˚)............................... xx
Optimum Print RH:.................30-60%
Optimum Print Temp:..............70˚F (21˚C)
Flame Spread
Classification:........................Class A**

Tensile Strength (MD/CD):...........8670/9590 psi
Ultimate Elongation (MD/CD):......21/26%
Initial Tear Resistance(MD?CD)......1080/840 lb/in
Outdoor Life Expectancy*.............3 months
Indoor Life Expectancy*................6 months

*Based on manufacturer's accelerated age testing. Results may vary based on usage.
**Based on ASTM E84 test method

APPLICATIONS GUIDELINES

Outdoor and Indoor Banners: This product is recommended for indoor and outdoor banner applications.

Printer & Ink Compatibility: TB9UV is designed to offer exceptional print performance on UV cure printing systems using flexible ink sets.

Water Resistance & Surface Protection: TB9UV is considered water resistant. The product surface can be damaged from excessive folding or creasing, so overlaminating is recommended for protection.

Material Handling & Storage: Once the print is completed, roll imaged media onto a core until ready for use. Folding of the material is not recommended. After use, the material should be stored in its original packaging in the poly bag at 59-86˚F / 15-30˚ C and 30-70% RH.

FINISHING RECOMMENDATIONS

Tape & Stitched Hem: Standard high-tack banner tape can be used and is preferred to sewing, as the sewing process can scratch the film surface. Follow the guidelines of the tape manufacturer. If sewing, it is recommended that the unlaminated banners be stitched hem side up so that the sewing machine foot comes in contact with only the backside of the banner. For maximum reinforcement, a double-stitched hem with a double lock stitch with a maximum of five stitches per inch and corner reinforcements are recommended.

Grommeting: Grommets should be placed in the hemline along the length of the banner so that the grommet is through two layers. Corner grommets should be placed where the length and width hems cross, so that the grommet is through four layers. A reinforced corner is also recommended to increase durability.

Laminating: A vinyl pressure-sensitive overlaminate or an acrylic liquid overcoat may be used. However, overlaminating one side may cause the product to curl toward the laminated side.

RECYCLING AND DISPOSAL

Disposal by recycling of ink jet media is the preferred method. Where recycle markets do not exist, disposal by landfill or an approved incinerator is acceptable. See the Magic Technical Bulletin @ www.magicinkjet.com

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UV CURE
Magic®TB9UV
DuPont Tyvek®
For UV cure printing using flexible ink sets

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MARKET APPLICATIONS

- High Strength Indoor / Outdoor Banners
- Trade Show Graphics
- Sporting Events
- Promotions

PRODUCT DESCRIPTION

- 9 mil polyolefin
- Outdoor / Indoor Tyvek® banner
- Excellent tear resistance
- Non-glare matte finish
- Opacity: 96%
- Recyclable,

GENERAL AVAILABILITY

TB9UV	Part #
36" x 30'	71037
36" x 300'	71038 3 Roll Bulk
50" x 300'	71039 3 Roll Bulk

Note: 3" core

FEATURES & BENEFITS

- Lightweight with the strength of a heavyweight
- Textured surface
- Softer look and feel than vinyl banners
- High resolution imaging
- Ideal for indoor or outdoor applications
- Designed to offer exceptional print performance on UV cure printing systems using flexible ink sets
- Recyclable – more environmentally friendly product than vinyl.

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Date: 2-14-2011

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FINE ART CANVAS
Magiclée® Torino 17M

Artist Stretch Canvas for Pigment Printer Systems

Making all Great Images Count

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MARKET APPLICATIONS

- Photo /Portrait
- Fine Art Reproductions
- Museum Art / Photo Display / Maps
- Banners

PRODUCT DESCRIPTION

- 17 mil artist stretch canvas
- Matte finish; subtle texture; pH neutral
- Poly/cotton blend
- Pigment inks recommended for longer-lasting images
- Compatible with most dye-based inks for short-term indoor reproductions

GENERAL AVAILABILITY

Torino 17M	Part #
17" x 50'	70935
24" x 10'	70403
24" x 50'	70936
36" x 50'	70937
42" x 50'	70938
44" x 50'	70939
50" x 50'	70940
54" x 50'	70941
60" x 50'	70942

Core = 3" core with a 2" core adapter

FEATURES & BENEFITS

- Superior color gamut and resolution
- Matte finish
- pH neutral
- Long-term, fade-resistant reproductions when imaged with pigment inks
- Water resistance when imaged with pigment inks

MEDIA COMPATIBILITY

May be used on most thermal and piezo water-based printing systems – including Epson Stylus®, Hewlett-Packard DesingJet®, and Canon iPF series.

*Note: It is recommended that the automatic cutter be turned off within the printer system. Some printer blades may not be able to trim this media.

* For complete Magic® product set, refer to Magic Printer Compatibility Chart under Technical Support on www.magicinkjet.com.

* For additional product details – including printer settings and finishing guidelines – see Application Guide under Tech Support of www.magicinkjet.com

* For ICC profile availability, see www.magicinkjet.com

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Date: September 2012

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Torino 17 M
INK JET STRETCH CANVAS FOR PIGMENT PRINTER SYSTEMS

MAGICLEE® Torino 17M is a matte finish, pH neutral artist stretch canvas designed for long-term, fade resistant fine art or photo reproductions when imaged with pigment inks. The polyester/cotton blend canvas has a specifically designed coating which delivers superior color gamut and resolution. Torino 17M has the added bonus of water resistance when printed with pigment inks.

PHYSICAL PROPERTIES

Caliper:	17 mils + / - 2 mils	Optimum Print Tempt:	50%RH / 70^0 F
Weight	340 gsm^2	Base Type:	Poly cotton
Whiteness:	107	Flame Spread:	**Class A
Gloss (60°	2.1	** Based on ASTM E84 Test Method	
pH value:	7.1 (neutral)		
Longevity:	Torino 17M passes 100 year Display Permanence Rating form Wilhelm Imaging Research, Inc. Refer to Technical Bulletin: Fine Art Media Image Stability Performance		

APPLICATIONS GUIDELINES

Printer & Ink Compatibility: Torino 17M is compatible with the popular water based thermal and piezo print head inkjet printers such as Epson Stylus series, Canon and, Hewlett-Packard Design Jet Series, It is recommended to use with pigmented inks for longevity. The use of dye-based inks can result in premature fading. Torino 17M has a unique inkjet receptive coating that is also compatible with solvent, eco-solvent UV cure & latex inks.

Printer Settings: For Canon iPF series, select watercolor fine art paper, highest quality. For Epson Stylus with Ultra Chrome ink/matte black, select smooth fine art paper, 1440 or 720 dpi. For Epson Stylus with Ultra Chrome K3 ink/matte black, select smooth fine art paper, 1400 dpi. For Epson Stylus with Ultra Chrome K3 ink/photo black, select smooth fine art paper, 1440 dpi. For Hewlett-Packard Design Jet 5000, select max quality, heavyweight coated paper.

Water Resistance: A high degree of water resistance is present when pigment inks are used.

Image Permanence: Torino 17M passes 100 year Display Permanence Rating form Wilhelm Imaging Research, Inc. Refer to Technical Bulletin: Fine Art Media Image Stability Performance.

Material Storage: Torino offers best results when used one year after manufacturing date. The unused media should be stored in its original packaging in the poly bag and stored at 72° F (+/-5°).

FINISHING RECOMMENDATIONS

Mounting: After printing, material should be permanently attached to a rigid board, stretcher bars or frame with staples or tacks. Using pressure sensitive adhesives is not recommended, as this does not prevent the material from natural environmental shrinkage over time. Shrinkage may also cause spacing between paneled jobs not mounted properly. All edges of the material should be affixed to the mounting surface to prevent the edges from curling. When stretched improperly, canvas is susceptible to edge cracking. See Magiclee Technical Bulletin "Mounting Canvas onto a Stretch Frame" on the Magicinkjet.com web site.

Surface Protection: Museo Enhance or Clearshield liquid overprotection is recommended. It is recommended to always pretest laminates prior to performing actual application.

RECYCLE AND DISPOSAL

Disposal by land fill or an approved incinerator is acceptable. See the Magic Recycle Technical Bulletin @ www.magicinkjet.com.

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Torino 20M
HIGH TEXTURE INK JET STRETCH CANVAS FOR PIGMENT PRINTER

MAGICLEE Torino 20M is a matte finish, highly-textured, pH neutral, artist stretch canvas designed for long-term, fade resistant fine art or photo reproductions when imaged with pigment inks. The 100% cotton canvas has a specifically designed coating which delivers superior color gamut and resolution. Torino 20M has the added bonus of water resistance when printed with pigment inks.

PHYSICAL PROPERTIES

Caliper:	20 mils + / - 2 mils	Base Type:	100% Cotton
Weight	482 gsm^2	Optimum Print Tempt:	50%RH / 70^0 F
Whiteness:	90	Flame Spread:	Not tested
Gloss (60°	2.1		
pH value:	7.0 (neutral)		

APPLICATIONS GUIDELINES

Printer & Ink Compatibility: Torino 20M is compatible with the popular water based thermal and piezo print head inkjet printers such as Epson Stylus series, Canon and, Hewlett-Packard Design Jet Series, It is recommended to use with pigmented inks for longevity. The use of dye-based inks can result in premature fading. Torino 20M has a unique inkjet receptive coating that is also compatible with solvent, eco-solvent UV cure & latex inks.

Printer Settings: For Canon iPF series, select watercolor fine art paper, highest quality. For Epson Stylus with Ultra Chrome ink/matte black, select smooth fine art paper, 1440 or 720 dpi. For Epson Stylus with Ultra Chrome K3 ink/matte black, select smooth fine art paper, 1400 dpi. For Epson Stylus with Ultra Chrome K3 ink/photo black, select smooth fine art paper, 1440 dpi. For Hewlett-Packard Design Jet 5000, select max quality, heavyweight coated paper.

Water Resistance: A high degree of water resistance is present when pigment inks are used.

Image Permanence: Torino 17M passes 100 year Display Permanence Rating form Wilhelm Imaging Research, Inc. The difference between Torono17M and Torino 20M is the canvas base properties, ie., poly/cotton vs. 100% cotton.

Material Storage: Torino offers best results when used one year after manufacturing date. The unused media should be stored in its original packaging in the poly bag and stored at 72o F (+/-5o).

FINISHING RECOMMENDATIONS

Mounting: After printing, material should be permanently attached to a rigid board, stretcher bars or frame with staples or tacks. Using pressure sensitive adhesives is not recommended, as this does not prevent the material from natural environmental shrinkage over time. Shrinkage may also cause spacing between paneled jobs not mounted properly. All edges of the material should be affixed to the mounting surface to prevent the edges from curling. When stretched improperly, canvas is susceptible to edge cracking. See Magiclee Technical Bulletin "Mounting Canvas onto a Stretch Frame" on the Magicinkjet.com web site.

Surface Protection: Museo Enhance or Clearshield liquid overprotection is recommended. It is recommended to always pretest laminates prior to performing actual application.

RECYCLE AND DISPOSAL

Disposal by land fill or an approved incinerator is acceptable. See the Magic Recycle Technical Bulletin @ www.magicinkjet.com.

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FINE ART CANVAS
Magiclée® Torino 20M

Artist Stretch Canvas for Pigment Printer Systems
Highly Textured, Matte Finish

Making all Great Images Count

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MARKET APPLICATIONS

- Photo /Portrait
- Fine Art Reproductions
- Museum Art / Photo Display / Maps
- Banners

PRODUCT DESCRIPTION

- 20 mil artist stretch canvas
- Matte finish; highly textured; pH neutral
- 100% cotton
- Pigment inks recommended for longer-lasting images
- Water resistant when printed with pigment inks

GENERAL AVAILABILITY

Torino 17M	Part #
17" x 50'	70943
24" x 10'	70404
24" x 50'	70944
36" x 50'	70945
42" x 50'	70946
44" x 50'	70947
50" x 50'	70948
54" x 50'	70949

Core = 2"

FEATURES & BENEFITS

- Superior color gamut and resolution
- Matte finish, highly textured surface
- pH neutral
- Long-term, fade-resistant reproductions when imaged with pigment inks
- Water resistance when imaged with pigment inks

MEDIA COMPATIBILITY

May be used on most thermal and piezo water-based printing systems – including Epson Stylus®, Hewlett-Packard DesingJet®, and Canon iPF series.

*Note: It is recommended that the automatic cutter be turned off within the printer system. Some printer blades may not be able to trim this media.

* For complete Magic® product set, refer to Magic Printer Compatibility Chart under Technical Support on www.magicinkjet.com.

* For additional product details – including printer settings and finishing guidelines – see Application Guide under Tech Support of www.magicinkjet.com

* For ICC profile availability, see www.magicinkjet.com

Phone:	1-413-539-5731
Fax:	1-800-861-4128

Disclaimer: Information presented in this product sellsheet is intended to offer a useful reference in selecting media for your output. No media warranties are implied unless specifically mentioned. Printer and / or ink changes may affect results. The most current product information may be found at www.magicinkjet.com.

Date: December 2010

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Torino 20M

HIGH TEXTURE INK JET STRETCH CANVAS FOR PIGMENT PRINTER

MAGICLEE Torino 20M is a matte finish, highly-textured, pH neutral, artist stretch canvas designed for long-term, fade resistant fine art or photo reproductions when imaged with pigment inks. The 100% cotton canvas has a specifically designed coating which delivers superior color gamut and resolution. Torino 20M has the added bonus of water resistance when printed with pigment inks.

PHYSICAL PROPERTIES

Caliper:	23 mils + / - 2 mils	Base Type:	100% Cotton
Weight	482 gsm^2	Optimum Print Tempt:	50%RH / 70^0 F
Whiteness:	90	Flame Spread:	Not tested
Gloss (60°	2.1		
pH value:	7.0 (neutral)		

APPLICATIONS GUIDELINES

Printer & Ink Compatibility: Torino 20M is compatible with the popular water based thermal and piezo print head inkjet printers such as Epson Stylus series, Canon and, Hewlett-Packard Design Jet Series, It is recommended to use with pigmented inks for longevity. The use of dye-based inks can result in premature fading. Torino 20M has a unique inkjet receptive coating that is also compatible with solvent, eco-solvent UV cure & latex inks.

Printer Settings: For Canon iPF series, select watercolor fine art paper, highest quality. For Epson Stylus with Ultra Chrome ink/matte black, select smooth fine art paper, 1440 or 720 dpi. For Epson Stylus with Ultra Chrome K3 ink/matte black, select smooth fine art paper, 1400 dpi. For Epson Stylus with Ultra Chrome K3 ink/photo black, select smooth fine art paper, 1440 dpi. For Hewlett-Packard Design Jet 5000, select max quality, heavyweight coated paper.

Water Resistance: A high degree of water resistance is present when pigment inks are used.

Image Permanence: Torino 17M passes 100 year Display Permanence Rating form Wilhelm Imaging Research, Inc. The difference between Torono17M and Torino 20M is the canvas base properties, ie., poly/cotton vs. 100% cotton.

Material Storage: Torino offers best results when used one year after manufacturing date. The unused media should be stored in its original packaging in the poly bag and stored at 72o F (+/-5o).

FINISHING RECOMMENDATIONS

Mounting: After printing, material should be permanently attached to a rigid board, stretcher bars or frame with staples or tacks. Using pressure sensitive adhesives is not recommended, as this does not prevent the material from natural environmental shrinkage over time. Shrinkage may also cause spacing between paneled jobs not mounted properly. All edges of the material should be affixed to the mounting surface to prevent the edges from curling. When stretched improperly, canvas is susceptible to edge cracking. See Magiclee Technical Bulletin "Mounting Canvas onto a Stretch Frame" on the Magicinkjet.com web site.

Surface Protection: Museo Enhance or Clearshield liquid overprotection is recommended. It is recommended to always pretest laminates prior to performing actual application.

RECYCLE AND DISPOSAL

Disposal by land fill or an approved incinerator is acceptable. See the Magic Recycle Technical Bulletin @ www.magicinkjet.com.

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Magiclée

TORINO 21G   *New & Improved*

Glossy Pigment & Dye Compatible Canvas

MAGICLEE® Torino 21G is a glossy 20 mil poly/cotton, heavy textured, artist stretch canvas.   The unique coating of Torino 21G is compatible with waterbased thermal/piezo technology supporting either dye or pigment. The new & improved Torino 21G is more pliable and easier to stretch and wrap. This canvas is ideal for portraits, fine art repro- ductions, museum art, heavy-duty indoor signage, photo displays, and maps.

PHYSICAL PROPERTIES

Base Construction.......Poly/Cotton Blend
Caliper......................20.0 mil (500 micron)
Gloss (60˚). 7.3

Basis Weight....................341 g/m^2 (10 oz/yd^2)
Whiteness (X-Rite 938) 91

APPLICATIONS GUIDELINES

Printer & Ink Compatibility: Torino 21G's coating is compatible with most water-based dye or pigment thermal & piezo printer systems such as Epson Stylus ®, Canon iPF ® series, and Hewlett-Packard DesignJet ®. Higher color gamut and gloss levels result when using dye based ink. Excellent performance with pigmented piezo ink delivery systems, However, due to the various ink formula- tions available, a pretest is required for compatibility. Some inks may result in increased dry times or dot pooling render- ing the product incompatible.

Printing: To optimize print quality use a color profile. ICC color profiles can be obtained for a selected RIP, ink, and printer combi- nation on our magiclee.net website. Optimal printing environment is 70˚ F, 40-60% RH. For HP5000 dye and UV printers, suggested setting is studio canvas max quality. For Epson printers, suggested setting is 2800 dpi, canvas.

Printer Loading: It is recommended to turn off the automatic cutter within the printer system. Some printer blades may not be able to trim this media, especially if the blade is dull. Advance the canvas several inches and cut manually to avoid any problems. Due to the heavy weight of the canvas, the feed rate may differ in printers resulting in slight variations in size from print to print or from the expected size after RIP'ing.

Base Consistency: Canvas is a natural base that has variability in its whiteness and fabric weave from lot to lot. Although the surface charac- teristics may vary, the ink jet coating layer will provide repeatable imaging performance.

Water Resistance: Torino 21G is not water resistant and should not be used outdoors or in areas of high moisture.

Lighfastness: Pigmented inks will result in longer lasting images. Dye based inks fade noticeably under direct sunlight or in interior applications where direct sunlight or fluorescent lighting may fall on the image. Over lamination will provide surface pro- tection from fade.

Material Storage: Unused portion of the roll should be stored in its original packaging in the poly bag with core plugs. Unimaged material should be stored at 72˚ F (+/-5˚) for no more than 1 year.

Finishing Guidelines

Mounting:

After printing, images should be allowed to dry before handling. It is recommended to apply surface protection prior to stretching and framing. This will protect the image from scratching or the coating from cracking. Images are more susceptible to scratching at higher RH environments (>60%RH). Torino 21G can be permanently attached to a rigid board or frame with staples or tacks. It is not recommended to use glue or pressure-sensitive adhesives, as these will interfere with the natural environmental shrinkage over time. All edges should be affixed to prevent edge curl from occurring. When stretched improperly, canvas is susceptible to edge cracking.   See Magiclee Technical Bulletin "Mounting Canvas onto a Stretcher Frame" on the Magicinkjet.com web site.

Surface Protection:

Torino 21G may be overlaminatd using liquid laminates. A pre-test is required to determine compatibility with any post printing finishing solution. Matte or luster sprays can be used to lower the image gloss if desired. For longer lasting images, use fast-drying sprays with UV blockers.

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FINE ART CANVAS
Magiclée® Torino 21G   *New & Improved*

Glossy Artist Stretch Canvas
Poly/Cotton Blend

Making all Great Images Count

www.magicinkjet.com

MARKET APPLICATIONS

- Photo / Portrait
- Fine Art Reproductions
- Museum Art / Photo Display / Maps
- Heavy-duty indoor signage

PRODUCT DESCRIPTION

- Magiclée canvas, glossy textured surface, 20 mil
- Poly/Cotton
- Pigment or dry ink/ thermal and piezo systems
- Not water-resistant; to be used indoors or in areas of low to moderate moisture

GENERAL AVAILABILITY

Torino 21G	Part #
36" x 10'	70984
36" x 50'	70985
44" x 50'	70986
50" x 50'	70987

Core = 2 inch

FEATURES & BENEFITS

- Pliable and easy to stretch and wrap
- Heavy texture, poly/cotton, gloss canvas
- Unique coating compatible with water-based thermal/ piezo technology supporting dye or pigment inks.

MEDIA COMPATIBILITY

Designed for water-based dye or pigment thermal & piezo printer systems such as Hewlett-Packard DesignJet® series, Epson Stylus® Pro series, and Canon iPF 8000 printers.

*Note: It is recommended that the automatic cutter be turned off within the printer system. Some printer blades may not be able to trim this media.

* For complete Magiclée® product set, refer to Magiclée Printer Compatibility Chart under Technical Support on www.magicinkjet.com.

* For additional product details – including printer settings and finishing guidelines – see Application Guide under Tech Support of www.magicinkjet.com

* For ICC profile availability, see www.magicinkjet.com

Phone:	1-800-628-8604
Fax:	1-800-861-4128

Disclaimer: Information presented in this product sellsheet is intended to offer a useful reference in selecting media for your output. No media warranties are implied unless specifically mentioned. Printer and / or ink changes may affect results. The most current product information may be found at www.magicinkjet.com.

Date: September 2010

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TOTAL-PHOTO M™ / Universal
Matte Photorealistic Paper
For Aqueous, Solvent, Eco-Solvent, Latex and UV Cure Systems

MAGIC@ Total-Photo M™ is a 6.5 mil universal matte photorealistic paper for use on aqueous dye & pigment as well as solvent, eco-solvent, latex and UV cure ink jet printers. The ultra smooth matte surface, combined with high ink saturation provides a rich density for photographic images. The high caliper and sealed base sheet eliminates cockle and promotes easy handling during lamination and mounting. Total-Photo M is ideal for photo reproductions, P.O.P. graphics, premium indoor signs, and posters.

Caliper	6.5 mil / 165 microns
Basis Weight	176 g/m$_2$
Opacity	97%
Gloss of print side (60°)	2.4
pH value	6.6 (pH neutral)
Optimum Printing Environment	70°F (30-70% RH)

APPLICATIONS GUIDELINES

Imaging: The print side is the matte side and it is wound to the outside of the roll. \

Printer & Ink Compatibility: Total-Photo M™ is totally universal and compatible with printers such as HP DesignJet®, Epson Stylus®, and Canon®, Vutek®, Mimaki®, Mutoh®, Roland, etc.
Although dye-based inks provide a higher color gamut, ink fade can occur.

Printer Settings: To optimize print quality, printers should be set for the highest print quality. The media selection is "Heavy Weight Coated Paper" HPDesignJet printers, 200% max ink saturation. Media setting for the Epson is "Ultra Smooth Fine Art or Smooth Fine Art", 1440 or 2880 dpi, finest detail, edge smoothing". To optimize print quality on the solvent ink jet printers, 720 dpi bidirection will offer the best results. Optimized printer settings will vary from printer manufacturer. 45°C to 55° C is a good temperature starting point for both pre and post heaters.

Water Resistance: Total-Photo M in conjunction with pigment inks has excellent water resistance. Dye-based inks have a moderate level of water resistance. Lamination is recommended when an image will be exposed to repeated physical handling or when prolonged product life is needed.

Light Stability: Pigment inks provide the best long-term UV fade and water resistance.

Material Storage: To protect unused material, store material in its original packaging, in the poly bag at 72°F (+/-5).

FINISHING RECOMMENDATIONS

Lamination: Total-Photo M may be overlaminated with most cold laminates and low-temperature heat laminates, but cold are preferred and give better adhesion results. Make sure the images are completely dry prior to laminating. When the paper is overlaminated with heavy gauge laminates and either mounted to a board or encapsulated, overlap the image with a 0.25 inch safe edge of laminate. This will seal the paper, preventing moisture absorption and paper splitting from the undue stress of the heavy gauge laminating films. Use laminates of equal gauge when encapsulating to prevent image curl.

Mounting: Cold, pressure-sensitive adhesives typically provide the most aggressive bonds and are recommended for use with Total-Photo M.

RECYCLING AND DISPOSAL

Disposal by recycling of ink jet media is the preferred method. Where recycle markets do not exist, disposal by landfill or an approved incinerator is acceptable. See Magic Recycle Bulletin @ www.magicinkjet.com

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PHOTOREALISTIC PAPERS
Magic® TOTAL PHOTO™ M

Universal, Matte Photorealistic Paper
For Aqueous, Solvent, Eco-Solvent, Latex and UV Cure.

Making all Great Images Count

MARKET APPLICATIONS

- Quality Photographic Reproductions
- POS Graphics
- Premium Indoor Signage
- Posters

PRODUCT DESCRIPTION

- 6.5 mil photorealistic paper
- Aqueous dye & pigment, solvent & eco-solvent, latex and UV cure ink jet printer compatibility
- Ultra-smooth, matte surface, sealed base sheet

GENERAL AVAILABILITY

Total Photo M	Part #
*24" x 10'	70409
30" x100'	71237
50" x 100'	68978
60" x 100'	68981

3" Core w/ 2" adapter.

* tube sample

FEATURES & BENEFITS

- Photo-quality matte images on multiple printing systems
- High-caliper, sealed base sheet eliminates cockle & promotes easy handling during finishing
- High ink saturation provides a rich density for photographic images
- Lamination recommended when an image will be exposed to repeated physical handling or when prolonged product life is needed

MEDIA COMPATIBILITY

- Designed to offer exceptional print performance on aqueous dye & pigment, solvent & eco-solvent, latex and UV cure ink jet printers, such as HP, Epson, Canon, Roland, Vutek, Nur, Mimaki, Mutoh, etc. Although dye-based inks provide a higher color gamut, ink fade can occur.

* For complete Magic® product set, refer to Magic Printer Compatibility Chart under Technical Support on www.magicinkjet.com.

* For additional product details – including printer settings and lamination guidelines – see Application Guide under Tech Support of www.magicinkjet.com

Phone: 1-800-628-8604
Fax: 1-800-861-4128

Disclaimer: Information presented in this product sellsheet is intended to offer a useful reference in selecting media for your output. No media warranties are implied unless specifically mentioned. Printer and / or ink changes may affect results. The most current product information may be found at www.magicinkjet.com.

Date: July 2012

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MAGIC® PRODUCT TECHNICAL BULLETIN

TIPS & TRICKS WHEN MOUNTING TRADE SHOW GRAPHICS

This guide is designed to provide you with helpful information to build a durable trade show graphic. Partnering MAGIC® DMWVA10 with MAGIC® TSG-12 will result in a durable, finished trade show graphic, able to sustain being rolled and unrolled for transport.

POST-PRINTING GUIDELINES

Printer & Ink Compatibility: TSG-12 is compatible with most Hewlett-Packard®, Encad, and ColorSpan® thermal printers and with some water-based piezo printers with, both dye and pigment inks. Print in reverse image "mirror image" on the non-textured side of the film and view through the polycarbonate film side. The recommended maximum ink saturation levels are 250% on Encad, ColorSpan®, and HP2000/3000 series with UV inks, and 350% on HP2000/3000 series with dye inks, HP5000, and water-based piezo printers. Ink saturation limits can vary due to ink types, ink drop volume and humidity, so ink saturation levels should be optimized for specific printer, ink and software combinations. It is important to not exceed the ink saturation limits, because poor vinyl backer adhesion can result. It is important to allow the inks to dry before laminating. Dry times will vary depending on printing environment and ink-type. Waiting 24 hours is recommended. Make sure the inks are dry to the touch. Allow more time to dry if inks are still tacky.

Image Durability: One of the main features of TSG-12 is its pigment compatibility which results in long-lasting graphics. Pigment inks offer an image less subject to light fade. Color rich images can be achieved with TSG-12 when pigment inks are used.

MOUNTING GUIDELINES

Laminate Compatiblity: It is recommended to mount TSG-12 to DMWVA10 white backing film. Pretest all other backing films for compatibility. Internal testing resulted in good adhesion to other common vinyl backers.

Laminator Settings: It is not necessary to use heat when applying pressure-sensitive backers. However, applying the backer with minimal heat will allow adhesive to flow and will produce a more consistent bond to the TSG-12 print. Apply the backer at the following laminator conditions: 90-120°F, 80-100 psi, and 2-3 fpm.

Controlling Curl: To reduce curl when applying the white vinyl backers, use low tension on your pull rollers and slow down the speed of your take-up reel. This will lessen the amount of tension created when the release liner is being pulled from the roll. If still experiencing curl, reduce the pressure on your laminator rolls.

Use of Sleds: Using a sled during lamination will aid in transport and reduce the chance of wrinkles. You can either purchase easy-peel release boards or apply a release liner onto the board to prevent adhesive buildup.

Trimming Mounted Graphics: It is recommended to allow the laminated graphic to cure for at least 4 hours prior to trimming. The adhesive will fully cure after 24 hours. The optimum solution for trimming is a rotary cutter. When hand trimming, the knife must be kept absolutely straight. Any angle may cause delamination. Do not use a cutting matte. This soft underbody makes it more difficult to hold the blade straight. Cutting into a hard surface like glass requires that you change the blade quite often. A sharp blade is critical. When hand trimming, it is best to cut from the softer (back) side.

TRANSPORT RECOMMENDATIONS

Rolling for Transport: It is not recommended to roll your graphics smaller than a 12" diameter. Wait at least 4 hours prior to rolling the graphics. Adhesive bond becomes stronger over time. A smaller diameter can result in excessive stress, which may result in delamination. If delamination occurs, TSG-12 will fail between the imaging and vinyl adhesive layers. Layers can be re-adhered together without ruining the graphic. Always roll your graphic with the polycarbonate film facing outward (vinyl side in).

FINE ART PAPERS
Magiclée® Verona 250 HD

Smooth, High Definition, 100% Cotton Fine Art Paper

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MARKET APPLICATIONS

- Art Reproduction
- Original Art
- Commercial Art
- Photo Reproductions

PRODUCT DESCRIPTION

- 250 gsm natural white, 100% cotton fine art base paper
- Traditional matte finish, smooth surface
- Free of optical brighteners
- pH of 8.12 (Tappi Method T509)
- High degree of water resistance with pigment inks

Notes:
1) For optimal archival performance, it is best to keep Verona papers away from all non-acid-free substrates.
2) Handling – Product is not scuff-proof; imaged sheets should be treated as fine art and interleaved with acid-free or glassine sheets to protect the surface.

GENERAL AVAILABILITY

Verona 250 HD	Part #
17” x 35’	69287
24” x 10’	70410
24” x 35’	69288
36” x 35”	69375
44” x 35’	69289
50” x 35’	69284

Core = 3”

FEATURES & BENEFITS

- 100% cotton fine art paper, smooth surface
- Exceptional color gamut; truly vibrant colors
- Beautifully defined blacks and gray tones
- No optical brighteners
- Image layers of the paper will be consistent, yielding repeatable image performance.
- Optimized for pigment inks, which offer an image less subject to light fade. Compatible with dye and pigment, thermal and piezo printers.
- Recyclable

MEDIA COMPATIBILITY

Designed to offer exceptional print performance on Hewlett-Packard DesignJet® series, Epson Stylus® Pro series, and Canon iPF printers.

* For complete Magic® product set, refer to Magic Printer Compatibility Chart under Technical Support on www.magicinkjet.com.

* For additional product details – including printer settings and finishing guidelines – see Application Guide under Tech Support of www.magicinkjet.com

* For ICC profile availability, see www.magicinkjet.com

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Fax: 1-800-861-4128

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Date: December 2012

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DIGITAL FINE ART & PHOTO PAPERS:
Magiclée® Verona 285S

100% Cotton Fine Art Paper, Smooth

Making all Great Images Count

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MARKET APPLICATIONS

- Art Reproductions
- Original Art
- Commercial Art
- Photo Reproduction

PRODUCT DESCRIPTION

- 285 gsm Acid-Free Base Paper
- Acid-free, lignin-free, bright white fine art paper
- Smooth surface
- Thermal and piezo printer compatible

GENERAL AVAILABILITY

Verona 285S	Part #
8.5" x 11" - 50 sheets	64150
13" x 19" - 50 sheets	64152
24" x 10'	70412
24" x 35'	64144
36" x 35'	64146
42" x 35'	64147
44" x 35'	64148

Core = 3 inch

FEATURES & BENEFITS

- Acid-free coating and base
- Instant-dry images
- No optical brighteners
- Compatible with dye, pigment inks; thermal and piezo
- Available in sheets and rolls
- Recyclable

MEDIA COMPATIBILITY

Delivers exceptional print performance on Hewlett-Packard DesignJet® series, Hewlett-Packard Z series, Epson Stylus® Pro series with UltraChrome and K3 inks, Canon dye and pigment printers, and other aqueous piezo printers.

For optimal archival performance, keep Verona papers away from non-acid-free substrates.

* For complete Magic® product set, refer to Magic Printer Compatibility Chart under Technical Support on www.magicinkjet.com.

* For additional product details – including printer settings and lamination guidelines – see Application Guide under Tech Support of www.magicinkjet.com

* For ICC profile availability, see www.magicinkjet.com

Phone: 1-800-628-8604
Fax: 1-800-861-4128

Disclaimer: Information presented in this product sellsheet is intended to offer a useful reference in selecting media for your output. No media warranties are implied unless specifically mentioned. Printer and / or ink changes may affect results. The most current product information may be found at www.magicinkjet.com.

Date: May 2009

InteliCoat Technologies®

www.bciimage.com
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866 971-1008

Magiclée

Verona 285S
Digital Fine Art & Photo Paper

285 Gram Smooth Fine Art Paper for Digital Reproductions

Verona 285S is a fine art paper made of 100% cotton linters and a traditional matte finish designed for long-term fade resistant reproductions. This bright, white fine art paper is acid-free and lignin-free which results in a high archival quality. Verona 285S is a mould-made, cold press, watercolor fine art paper specifically designed with a water resistant coating that is free of optical brightener. Digital giclee' with superio color fidelity can be achieved with Verona 285S fine art paper.

PHYSICAL PROPERTIES

Caliper ....17 +/- 1 mil (425 microns)
Basis Weight............. 285 g/m^2
pH value .... 7 (Tappi method T509)

Whiteness......................90
Brightener....................none
Brightness 90

APPLICATIONS GUIDELINES

Printer & Ink Compatibility: These paper are compatible on Epson, Roland, Canon,and Hewlett-Packard water-based piezo printers, and Hewlett-Packard DesignJet 5000® series printers. It is recommended to pretest these papers on other printer systems for compatibility. The universal coating can be printed with both dye and pigment inks. Pigment inks are recommended as they offer a more stable image.

Printing: These papers will accept ink coverage up to 400% on the printer systems listed above. Due to the heavy weight of the paper, the feed rate through the printers may not be consistent, causing prints to differ slightly in size from print to print or from the expected size after RIP'ing. It is recommended to turn off the automatic printer cutter option. To optimize print quality, printers should be set for highest print quality. Use photobase or watercolor paper settings. Color profiles can be obtained for selected RIP, ink & printer combinations on the web site.

Base Consistency: The imaging layers of the paper will be consistent yielding repeatable image performance. Due to the 100% cotton linters base, slight variation in color is expected from lot to lot. These mould-made, acid-free, lignin-free papers offers maximum stability.

Mounting: Museum mounting techniques should be followed, including Japanese hinges and mylar corners. For fine art care and treatment standards, log onto www.artfacts.org/standards.

Handling: These fine art papers are not scuff-proof and should be treated as fine art and interleaved with acid-free paper or glassine slip sheets.

Framing: Imaged sheets may be framed under glass or other physical surface protection methods. For more information about framing, log onto the Professional Framing Association website at www.ppfa.com.

Surface Protection: It is recommended to follow industry standards when mounting fine art media. Fine art media is typically mounted behind glass for optimal image permanence. The following Clearstar® liquid laminates may be used: solvent-based ClearJet Fine Art Low Gloss & ClearJet A-2000 Semi-Gloss/Gloss finish, and waterbase Clearshield 200 Satin LL & Clearshield Semi-Gloss finish. It is recommended to always pretest laminates prior to performing actual application. Refer to the ClearStar web site at www.Clearstarcorp.com

Water Resistance: A high degree of water resistance is present only when pigment inks are used. It is best to keep Verona 285S away from all non acid-free substrates for optimal archival performance.

RECYCLE AND DISPOSAL

♻ paper   Disposal by recycling of ink jet media is the preferred method. Where recycle markets do not exist, disposal by land fill or an approved incinerator is acceptable. See the Magic Recycle Technical Bulletin @ www.magicinkjet.com

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*Inteli**Coat** Technologies*

For more information, call 1-800-628-8604.
or visit our website: www.magicleeinkje
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Magiclée

Verona 285S
Digital Fine Art & Photo Paper

285 Gram Smooth Fine Art Paper for Digital Reproductions

FINE ART WEBSITES	
Contact Name	Website Address
On-line digital art museum.	www.Digitalartmuseum.org
Foundation for digital culture	www.Digitalcult.org
On-line Art Reference	www.art.net/studios/digital.html
Digital Art Organization	www.Digitalart.org
Improving the care of artwork and keep sakes	.www.artfacts.org/standards
Professional Pictures Framers Association	.www.Ppfa.com
To find a professional framer	www.framerselect.com
Digital art news letter	.www.palimpset.stamford.edu/byorg/abbey/an/index/html
Magiclee Fine Art	www.magicleeinkjet.com (1-800-628-8604)
Clearstar Coatings	.www.clearstarcorp.com (1-888-523-2778)
Superfrog Frog Juice	.www. FAR-FROM-NORMAL.com (1-800-877-1907)
Bulldog Ultra	www.tricoat.com (1-800-895-8000)
Digital Artists:	
Karin Schminke	.www.schminke.com
Dorothy Simpson Krause	.www.DotKrause.com
Bonny Lhotka	.www.Lhotka.com

Please refer to the technical bulletin for a glossary of fine art terms. The technical bulletin can be obtained on the magicleeinkjet.com website.

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*Inteli**Coat** Technologies*

For more information, call 1-800-628-8604,
or visit our website: www.magicleeinl
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IMAGING

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Magiclée

Verona 285T

285 Gram Textured Fine Art Paper for Digital Reproductions

Verona 285T is a fine art paper made of 100% cotton linters and a traditional matte finish designed for long-term fade resistant reproductions. This bright, white fine art paper is acid-free and lignin-free which results in a high archival quality. Verona 285T is a mould-made, cold press, watercolor fine art paper specifically designed with a water resistant coating that is free of optical brightener. Digital giclee' with superio color fidelity can be achieved with Verona 285T fine art paper.

PHYSICAL PROPERTIES

Caliper ....17.5 +.02 mil (446.5 microns)
Basis Weight............. 285 g/m²
pH value .... 7 (Tappi method T509)

Whiteness. 80
Brightener.....................none
Brightness 90

APPLICATIONS GUIDELINES

Printer & Ink Compatibility: These paper are compatible on Epson, Roland, Canon,and Hewlett-Packard water-based piezo printers, and Hewlett-Packard DesignJet 5000® series printers. It is recommended to pretest these papers on other printer systems for compatibility. The universal coating can be printed with both dye and pigment inks. Pigment inks are recommended as they offer a more stable image.

Printing: These papers will accept ink coverage up to 400% on the printer systems listed above. Due to the heavy weight of the paper, the feed rate through the printers may not be consistent, causing prints to differ slightly in size from print to print or from the expected size after RIP'ing. It is recommended to turn off the automatic printer cutter option. To optimize print quality, printers should be set for highest print quality. Use photobase or watercolor paper settings. Color profiles can be obtained for selected RIP, ink & printer combinations on the web site.

Base Consistency: The imaging layers of the paper will be consistent yielding repeatable image performance. Due to the 100% cotton linters base, slight variation in color is expected from lot to lot. These mould-made, acid-free, lignin-free papers offers maximum stability.

Mounting: Museum mounting techniques should be followed, including Japanese hinges and mylar corners. For fine art care and treatment standards, log onto www.artfacts.org/standards.

Handling: These fine art papers are not scuff-proof and should be treated as fine art and interleaved with acid-free paper or glassine slip sheets.

Framing: Imaged sheets may be framed under glass or other physical surface protection methods. For more infor-mation about framing, log onto the Professional Framing Association website at www.ppfa.com.

Surface Protection: It is recommended to follow industry standards when mounting fine art media. Fine art media is typically mounted behind glass for optimal image permanence. The following Clearstar®liquid laminates may be used: solvent-based ClearJet Fine Art Low Gloss & ClearJet A-2000 Semi-Gloss/Gloss finish, and waterbase Clearshield 200 Satin LL & Clearshield Semi-Gloss finish. It is recommended to always pretest laminates prior to performing actual application. Refer to the ClearStar web site at www.Clearstarcorp.com

Water Resistance: A high degree of water resistance is present only when pigment inks are used.

It is best to keep Verona 285T away from all non acid-free substrates for optimal archival performance.

RECYCLE AND DISPOSAL

Disposal by recycling of ink jet media is the preferred method. Where recycle markets do not exist, disposal by land fill or an approved incinerator is acceptable. See the Magic Recycle Technical Bulletin @ www.magicinkjet.com

paper

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Magiclée

Verona 285T

285 Gram Textured Fine Art Paper for Digital Reproductions

FINE ART WEBSITES

Contact Name	Website Address
On-line digital art museum.	www.Digitalartmuseum.org
Foundation for digital culture	www.Digitalcult.org
On-line Art Reference	www.art.net/studios/digital.html
Digital Art Organization	www.Digitalart.org
Improving the care of artwork and keep sakes	www.artfacts.org/standards
Professional Pictures Framers Association	www.Ppfa.com
To find a professional framer	www.framerselect.com
Digital art news letter	www.palimpset.stamford.edu/byorg/abbey/an/index/html
Magiclee Fine Art	www.magicleeinkjet.com (1-800-628-8604)
Clearstar Coatings	www.clearstarcorp.com (1-888-523-2778)
Superfrog Frog Juice	www. FAR-FROM-NORMAL.com (1-800-877-1907)
Bulldog Ultra	www.tricoat.com (1-800-895-8000)

Digital Artists:

Karin Schminke	www.schminke.com
Dorothy Simpson Krause	www.DotKrause.com
Bonny Lhotka	www.Lhotka.com

Please refer to the technical bulletin for a glossary of fine art terms. The technical bulletin can be obtained on the magicleeinkjet.com website.

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FINE ART PAPERS
Magiclée® Verona 285T

100% Cotton Fine Art Paper, Textured

Making all Great Images Count

www.magicinkjet.com

MARKET APPLICATIONS

- Art Reproduction
- Original Art
- Commercial Art
- Photo Reproductions

PRODUCT DESCRIPTION

- 285 gsm , 100% cotton linters
- pH of 7.0 (Tappi Method T509)
- Lignin-free, bright white fine art paper
- Textured surface
- Thermal and piezo printer compatible

GENERAL AVAILABILITY

Verona 285T	Part #
24" x 10'	70411*
24" x 35'	49047
36" x 35"	49048
44" x 35'	49050
50" x 35'	49051

Core = 3"
*Core = 2"

FEATURES & BENEFITS

- pH neutral, lignin-free
- High archival quality
- Instant-dry images
- No optical brighteners
- Designed for long-term fade resistant reproductions
- Optimized for pigment inks, which offer an image less subject to light fade. Compatible with dye and pigment, thermal and piezo printers.
- Recyclable

MEDIA COMPATIBILITY

Designed to offer exceptional print performance on Hewlett-Packard DesignJet® series, Epson Stylus® Pro series, and Canon iPF 8000 printers.

* For complete Magic® product set, refer to Magic Printer Compatibility Chart under Technical Support on www.magicinkjet.com.

* For additional product details – including printer settings and finishing guidelines – see Application Guide under Tech Support of www.magicinkjet.com

* For ICC profile availability, see www.magicinkjet.com

Phone: 1-800-628-8604
Fax: 1-800-861-4128

Disclaimer: Information presented in this product sellsheet is intended to offer a useful reference in selecting media for your output. No media warranties are implied unless specifically mentioned. Printer and / or ink changes may affect results. The most current product information may be found at www.magicinkjet.com.

Date: February 2010

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MAGIC® APPLICATIONS GUIDE

Verona 250HD

250 Gram High Definition Smooth Fine Art Paper for Digital Reproductions

Magiclee® Verona 250 HD is a high definition fine art paper that, when printed, offers clean sharp images with an exceptional color gamut. The quality of output achievable with Verona 250 HD is one that raises the bar on expectations for truly vibrant colors as well as beautifully defined blacks and gray tones. This 250-gram, smooth, matte finish, 100% cotton paper designed specifically for fine art applications. Verona 250 HD has a water-resistant coating free of optical brighteners and is designed for use with dye, pigment, thermal and piezo printers.

PHYSICAL PROPERTIES

Basis Weight:	272 gm^2	Brighteners:	none
Caliper:	15.5 mils +/- 1 mil	Smoothness:	360
Whiteness:	88	Optimum Print Environment:	50%RH / 70^0 F
Brightness:	91		
pH value:	8.12 (Tappi T509)		

APPLICATIONS GUIDELINES

Printer & Ink Compatibility: Verona 250 HD can be printed with Epson Stylus® Pro series, Canon® iPF Series, Hewlett-Packard Design Jet® 5000 series, and with most piezo waterbased pigment inks. This fine art paper is compatible with dye based inks, and optimized for pigment inks. Pigment inks offer a more stable image from light fade.

Printer Settings: For Canon iPF series, select watercolor fine art paper, highest quality. For Epson Stylus with Ultra Chrome ink/matte black, select smooth fine art paper, 1440 or 720 dpi. For Epson Stylus with Ultra Chrome K3 ink/matte black, select smooth fine art paper, 1400 dpi. For Epson Stylus with Ultra Chrome K3 ink/photo black, select smooth fine art paper, 1440 dpi. For Hewlett-Packard Design Jet 5000, select max quality, heavyweight coated paper.

Handling: These fine art papers are not scuff-proof and should be treated as fine art and interleaved with acid free paper or glassine slip sheets.

Water Resistance: A high degree of water resistance is present when pigment inks are used.

Image Permanence: Internal applications testing by InteliCoat is in progress. It is best to keep Verona papers away from all non acid-free substrates for optimal archival performance.

Material Storage: Verona fine art media offers best results when used one year after manufacturing date. The unused media should be stored in its original packaging in the poly bag and stored at 72o F (+/-5o).

FINISHING RECOMMENDATIONS

Mounting: Museum mounting techniques should be followed, including Japanese hinges and mylar corners. For fine art care and treatment standards, log onto www.artfacts.org/standards.

Framing: Imaged sheets may be framed under glass or other physical surface protection methods. For more information about framing, log onto the Professional Framing Association website at www.ppfa.com.

Surface Protection: It is recommended to follow industry standards when mounting fine art media. Fine art media is typically mounted behind glass for optimal image permanence. The following Clearstar® liquid laminates may be used: solvent-based ClearJet Fine Art Low Gloss & ClearJet A-2000 Semi-Gloss/Gloss finish, and waterbased Clearshield 200 Satin LL & Clearshield Semi-Gloss finish. It is recommended to always pretest laminates prior to performing actual application.

RECYCLE AND DISPOSAL

Disposal by recycling of ink jet media is the preferred method. Where recycle markets do not exist, disposal by landfill or an approved incinerator is acceptable. See the Magic Recycle Technical Bulletin @ www.magicinkjet.com.

Arches®by Magiclee®
Verona 285T & Verona 285S
Digital Fine Art & Photo Paper

ARCHES®

magiclée®

285 Gram Textured & Smooth Fine Art Paper for Digital Reproductions

Verona 285T & 285S are 285 gram papers made of 100% cotton linters and a traditional matte finish designed for long-term fade resistant reproductions. These bright,white fine art papers are acid-free and lignin-free which results in a high archival quality. Arches by Magiclee®Verona 285T & 285S papers are mould-made, cold press, watercolor fine art papers specifically designed with a water resistant coating that is free of optical Brightener. Digital giclee' with superior color fidelity can be achieved with Arches by Magiclee®Verona 285T & 285S fine art papers.

PHYSICAL PROPERTIES

Caliper (textured).......19 +/-1 mil (475 microns)
Caliper (smooth) ....17 +/- 1 mil (425 microns)
Basis Weight............. 285 g/m^2
pH value .... 7 (Tappi method T509)
Image Permanence.....100$^+$ years **

Whiteness......................90
Brightener.....................none
Brightness 90
Smoothness (textured)..... 319
Smoothness (smooth) 185

APPLICATIONS GUIDELINES

Printer & Ink Compatibility: These paper are compatible on Epson & Roland water-based piezo printers and Hewlett-Packard DesignJet 5000® series printers. It is recommended to pretest these papers on other printer systems for compatibility. The universal coating can be printed with both dye and pigment inks. Pigment inks are recommended as they offer a more stable image.

Printing: These papers will accept ink coverage up to 400% on the printer systems listed above. Due to the heavy weight of the paper, the feed rate through the printers may not be consistent, causing prints to differ slightly in size from print to print or from the expected size after RIP'ing. It is recommended to turn off the automatic printer cut-ter option. To optimize print quality, printers should be set for highest print quality. Use photobase or watercolor paper settings. Color profiles can be obtained for selected RIP, ink & printer combinations on the web site.

Base Consistency: The imaging layers of the paper will be consistent yielding repeatable image performance. Due to the 100% cotton linters base, slight variation in color is expected from lot to lot. These mould-made, acid-free, lignin-free papers offers maximum stability.

Mounting: Museum mounting techniques should be followed, including Japanese hinges and mylar corners. For fine art care and treatment standards, log onto www.artfacts.org/standards.

Handling: These fine art papers are not scuff-proof and should be treated as fine art and interleaved with acid-free paper or glassine slip sheets.

Framing: Imaged sheets may be framed under glass or other physical surface protection methods. For more infor-mation about framing, log onto the Professional Framing Association website at www.ppfa.com.

Surface Protection: It is recommended to follow industry standards when mounting fine art media. Fine art media is typically mounted behind glass for optimal image permanence. The following Clearstar®liquid laminates may be used: solvent-based ClearJet Fine Art Low Gloss & ClearJet A-2000 Semi-Gloss/Gloss finish, and waterbased Clearshield 200 Satin LL & Clearshield Semi-Gloss finish. It is recommended to always pretest laminates prior to per-forming actual application. Refer to the ClearStar web site at www.Clearstarcorp.com

Water Resistance: A high degree of water resistance is present only when pigment inks are used.

**Image Permanence: Wilhelm Imaging Research,Inc test results predict that prints will last longer than 100 years when displayed indoors under 450 lux for 12 hours per day before noticeable fading and /or changes in color bal-ance occurs. This is for prints framed under glass and those not framed and exposed to illumination from bare-bulb fluorescent lamps. It is best to keep Verona 285T & 285S away from all non acid-free substrates for optimal archival performance.

RECYCLE AND DISPOSAL

Disposal by recycling of ink jet media is the preferred method. Where recycle markets do not exist, disposal by land fill or an approved incinerator is acceptable. See the Magic Recycle Technical Bulletin @ www.magicinkjet.com

paper

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InteliCoat Technologies

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*Most updated version of this guide can be obtain

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ARCHES®

Arches® by Magiclee®
Verona 285T & Verona 285S
Digital Fine Art & Photo Paper

285 Gram Textured & Smooth Fine Art Paper for Digital Reproductions

FINE ART WEBSITES

Contact Name	Website Address
On-line digital art museum.	www.Digitalartmuseum.org
Foundation for digital culture	www.Digitalcult.org
On-line Art Reference	www.art.net/studios/digital.html
Digital Art Organization	www.Digitalart.org
Improving the care of artwork and keep sakes	.www.artfacts.org/standards
Professional Pictures Framers Association	.www.Ppfa.com
To find a professional framer	www.framerselect.com
Digital art news letter	.www.palimpset.stamford.edu/byorg/abbey/an/index/html
Magiclee Fine Art Protect Film	www.magicleeinkjet.com (1-800-628-8604)
Clearstar Coatings	.www.clearstarcorp.com (1-888-523-2778)
Superfrog Frog Juice	.www. FAR-FROM-NORMAL.com (1-800-877-1907)
Bulldog Ultra	www.tricoat.com (1-800-895-8000)
Digital Artists:	
Karin Schminke	.www.schminke.com
Dorothy Simpson Krause	.www.DotKrause.com
Bonny Lhotka	.www.Lhotka.com

Please refer to the technical bulletin for a glossary of fine art terms. The technical bulletin can be obtained on the magicleeinkjet.com website.

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Magiclée

Verona 300 RAG

300 Gram High Definition Super Smooth RAG Fine Art Paper

Magiclee® Verona 300 RAG is a high definition rag paper that, when printed, offers clean sharp images with an exceptional color gamut. The super smooth surface allows for extremely vibrant colors as well as beautifully defined blacks and gray tones. This 300 gram, extra smooth, matte finish, 100% cotton rag paper is designed specifically for fine art photographic applications. Verona 300 RAG has a water-resistant coating free of optical brighteners and is designed for use with dye, pigment, thermal and piezo printers.

PHYSICAL PROPERTIES

Caliper ....16.5 +/-1 mil (414 microns)
Basis Weight..............300 g/m2
pH value ....8.0 (Tappi Method T509)

Whiteness.................. 89
Brightness. 91
Brighteners............... none
Smoothness 303

APPLICATION GUIDELINES

Printer & Ink Compatibility: Verona 300 RAG can be printed with Hewlett-Packard Design Jet® series, Epson Stylus® Pro Series, Canon® iPF Series, and with most piezo waterbased pigment inks. This fine art paper is compatible with dye based inks, and optimized for pigment inks. Pigment inks offer a more stable image from light fade.

Printing Settings: For Hewlett-Packard Design Jet 5000, select max quality, heavyweight coated paper. For Canon iPF series, select watercolor fine art paper. For Epson Stylus Pro printers, select :Smooth Fine Art Paper".

Base Consistency: The imaging layers of the paper will be consistent, yielding repeatable image performance.

Mounting: Museum mounting techniques should be followed, including Japanese hinges and mylar corners. For fine art care and treatment standards, log onto www.artfacts.org/standards.

Handling: These fine art papers are not scuff-proof and should be treated as fine art and interleaved with acid-free paper or glassine slip sheets.

Framing: Imaged sheets may be framed under glass or other physical surface protection methods. Allow time before framing. For more information about framing, log onto the Professional Framing Association website at www.ppfa.com.

Surface Protection: It is recommended to follow industry standards when mounting fine art media. Fine art media is typically mounted behind glass for optimal image permanence. Clearstar® products may be used. Visit their web site at www.clearstarcorp.com. It is recommended to always pretest laminates prior to performing actual application.

Water Resistance: A high degree of water resistance is present when pigment inks are used.

Image Permanence: Internal applications testing by InteliCoat is in progress. It is best to keep Verona papers away from all non acid-free substrates for optimal archival performance.

Material Storage: Verona fine art media offers best results when used within one year after manufacturing date. The unused media should be stored in its original packaging in the poly bag and stored at 72 °F (+/-5°).

RECYCLE AND DISPOSAL

paper

Disposal by recycling of ink jet media is the preferred method.   Where recycle markets do not exist, disposal by land fill or an approved incinerator is acceptable. See the Magic Recycle Technical Bulletin @ www.magicinkjet.com.

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FINE ART PAPERS
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Super Smooth, High Definition, 100% Cotton Rag

Making all Great Images Count

www.magicinkjet.com

MARKET APPLICATIONS

- Photo Reproductions
- Original Art
- Art Reproductions
- Commercial Art

PRODUCT DESCRIPTION

- 300 gsm natural white, 100% cotton rag
- Traditional matte finish, super-smooth surface
- Free of optical brighteners
- pH of 8.0 (Tappi Method T509)
- High degree of water resistance with pigment inks

Notes:
1) For optimal archival performance, it is best to keep Verona papers away from all non-acid-free substrates.
2) Handling – Product is not scuff-proof; imaged sheets should be treated as fine art and interleaved with acid-free or glassine sheets to protect the surface.

GENERAL AVAILABILITY

Verona 300 Rag	Part #
17" x 35'	70155
24" x 10'	70413
24" x 35'	70128
36" x 35"	70129
44" x 35'	70130

Core = 3"

FEATURES & BENEFITS

- 100% cotton rag paper, super-smooth surface
- Exceptional color gamut; extremely vibrant colors
- Excellent fidelity of blacks and gray tones – especially suited for photographic applicaitons
- No optical brighteners
- Image layers of the paper will be consistent, yielding repeatable image performance.
- Optimized for pigment inks, which offer an image less subject to light fade. Compatible with dye and pigment, thermal and piezo printers.
- Recyclable

MEDIA COMPATIBILITY

Designed to offer exceptional print performance on Hewlett-Packard DesignJet® series, Epson Stylus® Pro series, and Canon iPF 8000 printers.

* For complete Magic® product set, refer to Magic Printer Compatibility Chart under Technical Support on www.magicinkjet.com.

* For additional product details – including printer settings and finishing guidelines – see Application Guide under Tech Support of www.magicinkjet.com

* For ICC profile availability, see www.magicinkjet.com

Phone:	1-413-539-5731
Fax:	1-800-861-4128

Disclaimer: Information presented in this product sellsheet is intended to offer a useful reference in selecting media for your output. No media warranties are implied unless specifically mentioned. Printer and / or ink changes may affect results. The most current product information may be found at www.magicinkjet.com.

Date: December 2010

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Verona 210S / 250S / 310S Smooth Fine Art Paper for Digital Art and Photo Reproductions

Magiclée Verona Digital Fine Art Paper is a smooth fine art paper with a traditional matte finish designed for long-term fade resistant repro-ductions. This natural, white fine art paper is acid-free which results in a high archival quality. Verona fine art paper is a mould-made, cold press, fine art paper specifically designed with a water resist-ant coating that is free of optical brighteners. Digital giclee with superior color fidelity can be achieved with Verona fine art papers.

Physical Properties

Caliper . . . . 325, 393, 480 micron
Basis Weight . . . . . . 210, 250, 310 gsm
Whiteness 90

Application Guidelines

Printer & Ink Compatibility: Verona T paper is compatible with Epson, Mutoh & Roland water-based piezo printers and with Hewlett-Packard DesignJet® 5000 series printers. It is recommended to pretest Verona T on other printer systems for compatibility. The universal coating can be printed with both dye and pigment inks. Pigment inks offer a more stable image from light fade.

Printing: This paper will accept ink coverage up to 400% on the printer systems listed above. Due to the heavy weight of the paper, the feed rate through the printers may not be consistent, causing prints to differ slightly in size from print to print or from the expected size after RIP'ing. It is recommended to turn off the automatic printer cutter option. To optimize print quality, printers should be set for highest print quality. Use photobase or watercolor paper settings. ICC Profile solutions are continually being developed and the web page updated, so periodically consult the web page for profile availability.

Base Consistency: The imaging layers of the paper will be consistent yielding repeatable image performance. This mould-made, acid-free paper offers maximum stability.

Mounting: Museum mounting techniques should be followed, including Japanese hinges and mylar corners. For fine art care and treatment standards, log onto www.artfacts.org/standards.

Handling: Verona T fine art paper is not scuff-proof and should be treated as fine art and interleaved with acid-free paper or glassine slip sheets.

Framing: Imaged sheets may be framed under glass or other physical surface protection methods. For more information about on framing, log onto --the Professional Framing Association website at www.ppfa.com.

Surface Protection: Fine art media is typically mounted behind glass for optimal image permanence. Liquid laminates will provide surface protection. Overlaminating with Magic® DMFTP can be performed; however, DMFTP adds a significant level of gloss to the matte paper and also highlights the texture of the paper. It is recommended to always pretest laminates prior to performing actual application. Image permanence testing with liquid laminates is in progress. It is recommended to follow industry standards when mounting fine art media.

Water Resistance: A high degree of water resistance is present only when pigmented inks are used.

Image Permanence: Internal application testing performed by InteliCoat was performed on Epson 9500 prints using an HPUVTM Actinic Light Exposure unit. These test results provide us with confidence that the VeronaT fine Arts media when imaged with pigmented inks will last more than 100 years before considerable fade occurs without surface protection.

Material Storage: Verona T fine art media has best results when used one year after manufacturing date. The unused media should be stored in its original packaging in the poly bag and stored at 20°C (+/-5°).

Magiclée®

For more information contact magiclee@intelicoat.com
or visit our website: www.intelicoat.com

*Most updated data can be obtained on our website.

Installation of Magic Ink Jet Vinyl

TOOLS

Plastic Squeegee (harder plastic will last longer and trap less air bubbles than a softer one)
Rivet Brush
Large straight pins or "Wartenberg" Pinwheel
Utility Knife or "Xacto" knife
Industrial heat gun (hair dryers do not generate enough heat)
Propane torch
Tape measure
Metal straight edge
Low friction sleeves for squeegees
1" and 2" masking tape
3M Edge Sealer 3950
Marking pen of "Stabilo" pencils
Lint-free paper towels or rags
Isopropyl alcohol
Non-abrasive detergent

SUBSTRATE PREPARATION

Before installing any graphics, a clean substrate is critical. Recommendations for final cleaning are the following:

SUBSTRATE	CLEANER
Painted metals	Isopropyl Alcohol (IPA)
Glass	IPA or vinegar/water mixture
Acrylic & Polycarbonate	Acrylic cleaner and anti-static rag to remove electric charge and remaining particles of dust
Expanded PVC	Vinegar followed by a quick wipe with toluene

Caution. Certain plastics, such as fiberglass, polycarbonate, styrene and polystyrene can outgas. In certain instances, outgassing can occur for an extended period of time. When this occurs, applied graphics can bubble. Outgassing can be predicted by accelerating the aging process. A sample of the substrate with applied vinyl is placed in an oven at 150°F for as long as 24 hours. If bubbling occurs during the test, it will likely occur on the sign.

Polycarbonates absorb and outgas moisture. That is why polycarbonates must be dried prior to vinyl application. (Consult the polycarbonate manufacturer's recommendations for drying). Vinyl applied over undried polycarbonate can trap outgassing moisture, resulting in bubbles.

Under no circumstances are styrene or polystyrene recommended for outdoor applications.

VEHICLE GRAPHICS PREPARATION.

With respect to the application of vehicle graphics, the units should be cleaned the day prior to the installation. This will ensure that the vehicle surface is completely dry, and that no water is trapped behind rivet heads and at panel seams.

Vehicle surfaces should be cleaned using a soft bristle brush, then thoroughly rinsed with water. Residual grease, soot or tar should be further cleaned with a solvent such as DuPont's 3919S Prep Sol.

Complete the vehicle cleaning with denatured alcohol or IPA, drying the surface with lint-free paper towels before the solvent evaporates. To avoid adhesion problems, be sure that the surface is completely dry.

NOTES: Female-molded, gel-coated fiberglass typically has a waxy film caused by the mold release agent used in the manufacturing process. This waxy film must be removed before graphics installation.

All gelcoats and urethane paints require a cure time. This cure time varies depending on product type, temperature, humidity and amount of catalyst or hardener. During curing, the paint or gelcoat will outgas. This outgassing must be completed prior to vinyl application or problems such as bubbling will likely occur.

APPLICATION TEMPERATURE

Optimum application temperature range of the vinyl is typically between 60°F (16°C) and 90°F (32°C). At temperature extremes, you can expect additional difficulty.

Cold Weather Application Tip: Before pulling a unit into the shop, remove any accumulated snow from the trailer roof. This will eliminate the nuisance of water dripping off the roof edge onto you and your work. To expedite the warming of the trailer surface, open all trailer doors. To further speed the heating process, you can also direct portable heaters toward the inside of the trailer.

PLANNING YOUR INSTALLATION

Carefully study your installation diagram. Measure the location of each graphic element and tape them into position. Taking this step will ensure that all of the elements fit properly within the design space.

For vehicle graphics, multiple panel graphics with vertical overlaps must be wind-lapped with the front panel overlapping the rear one. Graphic panels with horizontal overlaps must be rain-lapped with the top section overlapping the bottom one. Each overlap should be between ¼" and ½".

In planning the installation sequence of vehicle graphics, you will usually work from the rear to the front, from the bottom to the top.

APPLICATION TO FLAT SURFACES

1. Tape the graphic into position with small pieces of masking tape. After rechecking your measurements, draw registration marks from the application tape to the sign substrate.

    To facilitate the installation of large markings, use a "top hinge". To make a top hinge, simply apply masking tape along the top edge of the graphic. With this method, you can remove the liner from the graphic in one piece before proceeding with the application.

    In a variation of the top hinge technique, you can cut between large individual letters so that each letter is independently hinged. Remove the sections of liner and install letter by letter.

    To make a center hinge, apply masking tape across the middle of the graphic. Using this technique, remove the liner from one half of the graphic, cutting the liner near the tape hinge. After you squeegee this section of the graphic, working from the hinge to the outer edge, remove the hinge and the remaining liner. Complete the application, starting at the initial squeegee stroke and working to the outer edge.
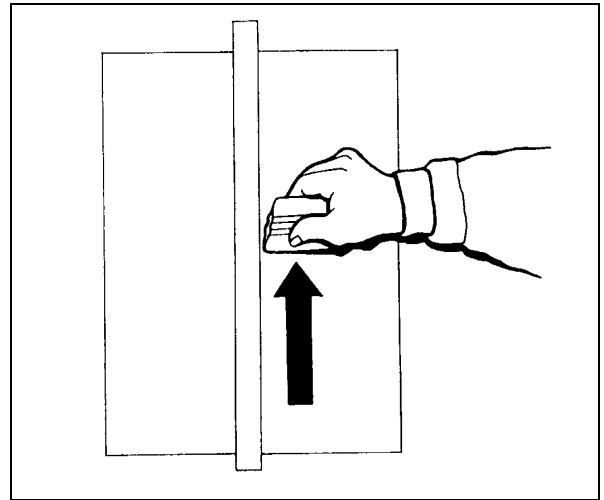
ILLUSTRATION #1

2. Typically, your first squeegee stroke begins at the center of the graphic. This first movement is straight up and down. To produce the necessary squeegee pressure for successful application, remember to push with your thumb on the bottom of the up stroke.
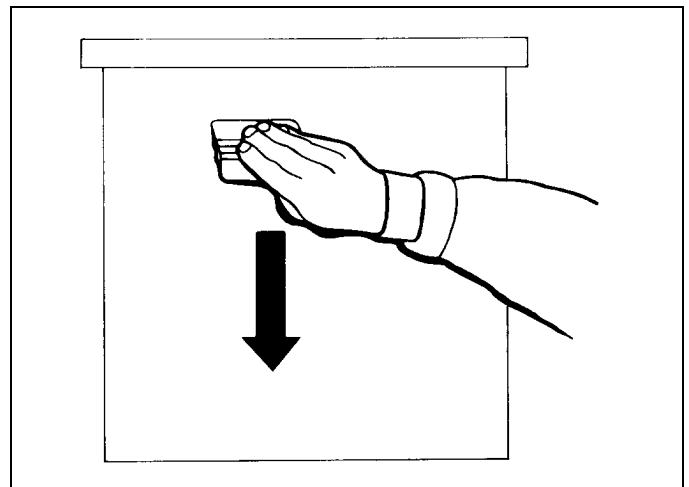(See illustration #1).

ILLUSTRATION #2

On the down stroke, push with your fingers on the top. (See illustration #2). Failure to maintain firm pressure often results in wrinkles and bubbles. (Minute bubbles are usually the result of inadequate squeegee pressure, a squeegee that is too soft or doesn't have a flat edge.)

All subsequent up and down strokes work off the initial center stroke. Each stroke must overlap the previous one. Angle your squeegee slightly away from the center line. Imagine that you are pushing the air out from under the vinyl. Never angle the squeegee toward the center line…this produces bubbles.

3. To reposition the vinyl graphic on the substrate, give the material a sharp jerk with a snap of your wrist. This movement should be perpendicular to the substrate.

Never use a slow pulling movement to reposition the graphic. This will stretch the material causing more problems.

4. To remove the application tape from the graphic, pull the tape against itself at a 180 degree angle. After removing the application tape, be sure to re-squeegee all your edges and overlaps.

For certain applications, it is a good idea to edge seal your markings. Some commercial edge sealers are available at your sign supply distributor. To achieve a neat finished appearance without drips, use a fine-tipped brush to apply your edge sealer.

CAUTION: Never varnish coat your applied vinyl graphics. Varnishes contain very hot solvents that will attack the vinyl facestock and the adhesive system. Varnished graphics will typically peel away from the sign substrate.

APPLICATION TO FLEXIBLE SIGNFACE SUBSTRATES AND ACRYLIC AND POLYCARBONATE SHEETING

Panel to panel seams should be matched to ensure color consistency for daytime appearance and night illumination. Common edges on the roll should be overlapped, if possible, during application to avoid potential color shift. NOTE: In addition to checking the appearance of seams, it is also a prudent practice to check light transmissions in the shop before sign installation. You will need to back up some colors with a white diffuser film or a sprayed background.

1. Initially use light strokes squeegeeing the film into position.

2. Starting at the center of the marking, re-squeegee the film using firm strokes. Firm strokes and a stiff squeegee will force the application fluid from underneath the film.

3. Fifteen minutes after application., spray the application tape with application fluid, then remove in no more than 5 minutes. This technique will aid application removal and prevent minute air bubbles from forming during this process. Remove the application tape by pulling it 180° against itself. Re-squeegee all edges after application tape removal to ensure good adhesion and prevent edge lifting. (A rivet brush may also be used in this part of the installation sequence to achieve a good

film/substrate bond. Different sizes of rivet brushes are available on the market. Proper technique with any of these will produce desired results).

4. To eliminate air bubbles, puncture the bubble at one end and press it flat with your thumb, starting at the other end. (Always use a pin; never use a knife. A pin hole will close around itself. A knife cut will open up.)

5. After 24 hours, re-squeegee the vinyl. Failure to take this step could result in poor ultimate adhesion and edge lifting.

Overlaps

1. To overlap sections, the overlap should be at least 1/32". To cut a uniform overlap, you will first need to tape a cutting strip onto the substrate. (You can use a 1" piece of 16 gauge steel as a cutting strip.)

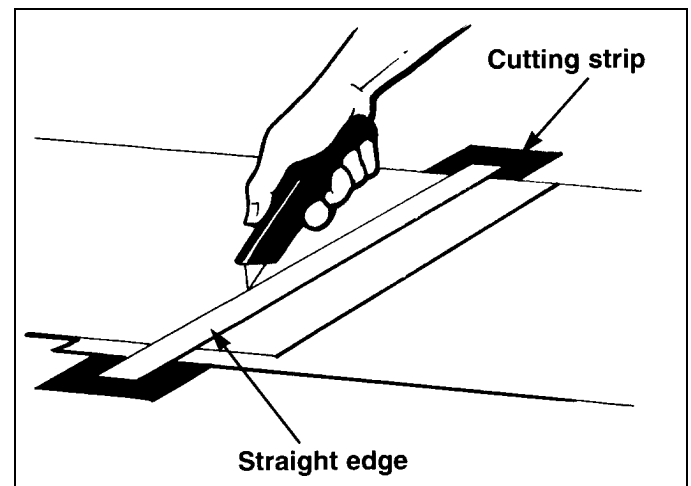2. Then squeegee both pieces of vinyl over the cutting strip.

ILLUSTRATION #3

3. Place a metal straight edge where the two pieces of film cover the cutting strip. With a sharp utility knife, cut through both layers of translucent film. (See illustration #3.)

4. Remove the excess film Then remove the cutting strip.

5. Complete the squeegeeing procedure.

APPLICATION OF VINYL TO RIVETED SURFACES

1. Squeegee the vinyl graphic over the riveted surface as described in the section covering flat applications.
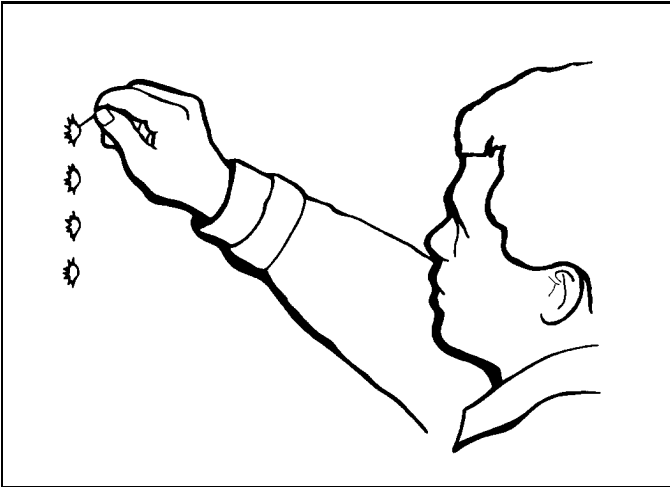

ILLUSTRATION #4

2. Using a pin (See illustration #4), puncture the vinyl in several places around each rivet head.
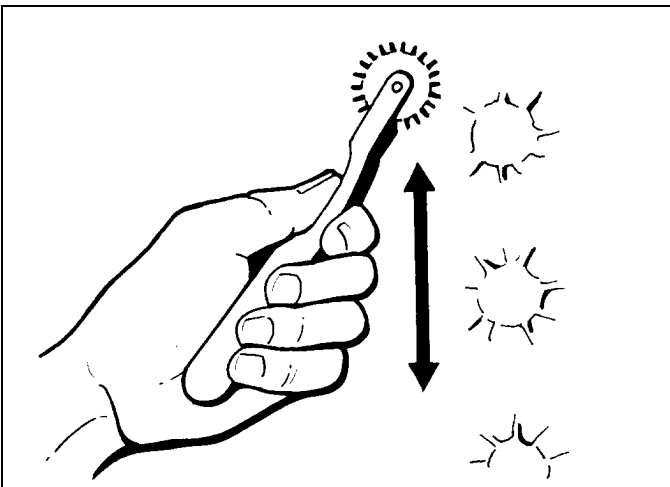

ILLUSTRATION #5

A "Wartenberg" pinwheel will accomplish the same result. Just roll the pinwheel on either side of the rivet row. (See illustration #5).
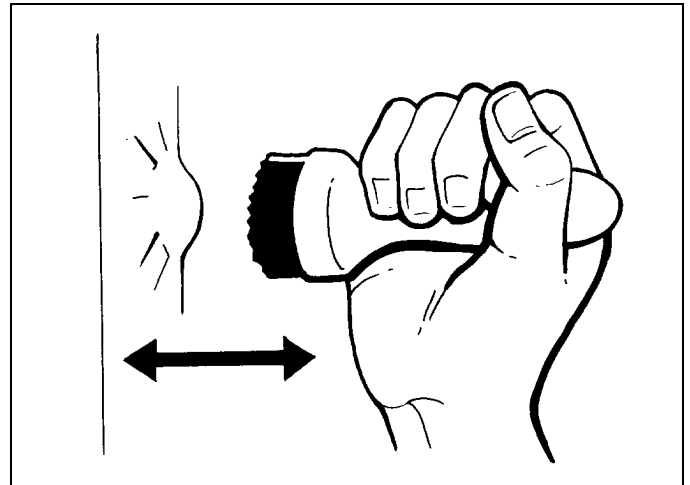

ILLUSTRATION #6

3. Holding the rivet brush in your fist, move the brush horizontally back and forth over the head of the rivet with short, choppy, firm strokes. (See illustration #6.) With this step, what starts as a large pucker will be compressed to a much smaller bubble around the rivet head.
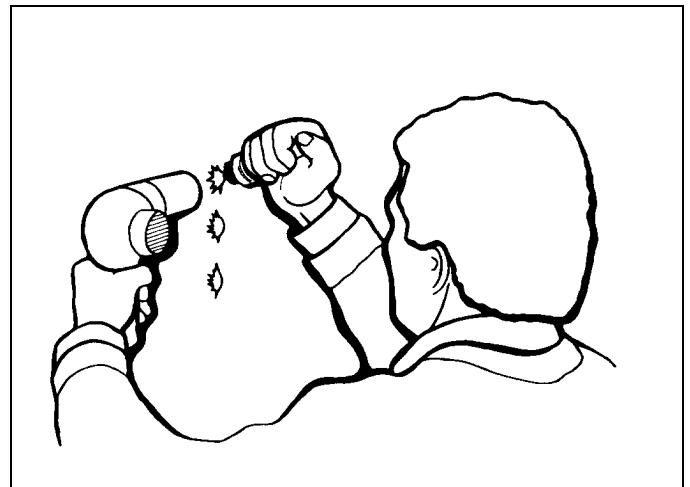
ILLUSTRATION #7

4. With the heat gun or propane torch several inches from the head of the rivet, heat the vinyl (See illustration #7.) Do not burn or melt the material. This heating process breaks the memory of the cast vinyl, allowing it to conform to the rivet head.

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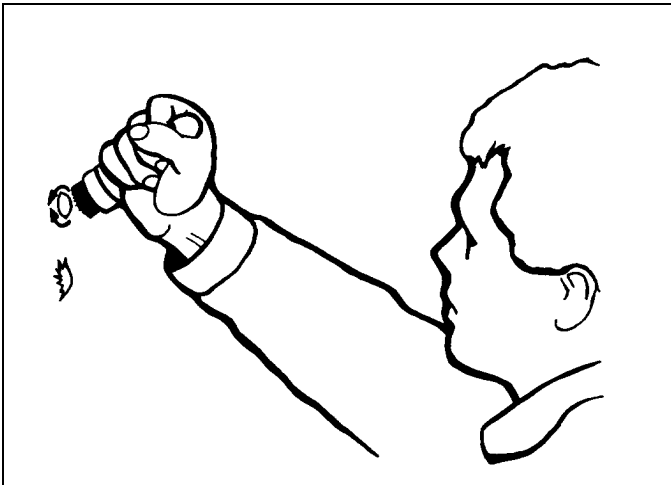
ILLUSTRATION #8

5. After heating the material, burnish the vinyl to the rivet head using a circular motion with the rivet brush. (See illustration #8). Firm pressure with the rivet brush will ensure good ultimate adhesion. The bristles of the rivet brush should be at a 45° angle to the edge of the rivet.
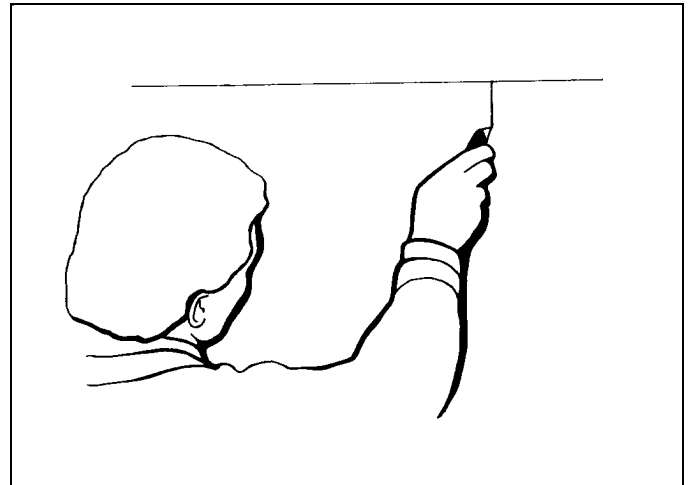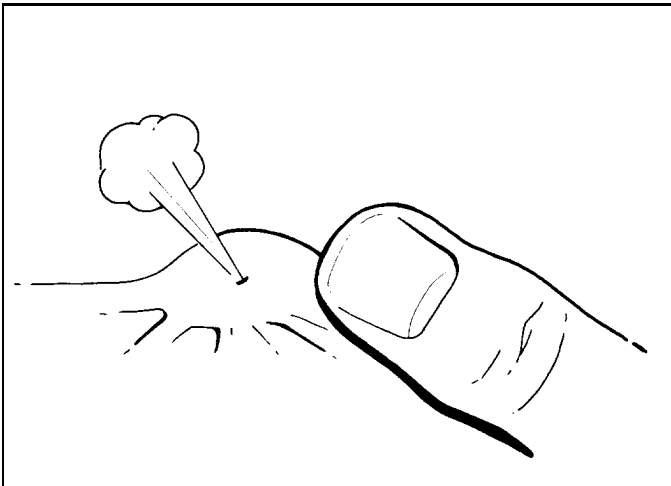

ILLUSTRATION #9

6. The last step in any installation should be a final inspection. Be sure all material conforms tightly to the rivet heads. If the graphic has air bubbles, puncture the bubbles at one end with a pin. Using your fingers, push the air toward the pin hole. (See illustration #9.) Never slit a bubble with a knife.

ILLUSTRATION #10

If the substrate is comprised of panels, the vinyl must be cut along the seams. (See illustration #10). The seams of roll-up truck doors must be double-cut at a 45° angle along both edges of the joining door panels. All cuts must be re-squeegeed to ensure proper adhesion. We also recommend that you edge seal the graphic at the door panel seam.

APPLICATION OF CAST VINYL TO CORRUGATIONS

Upper valley

Upper slope

Ridge

Lower slope
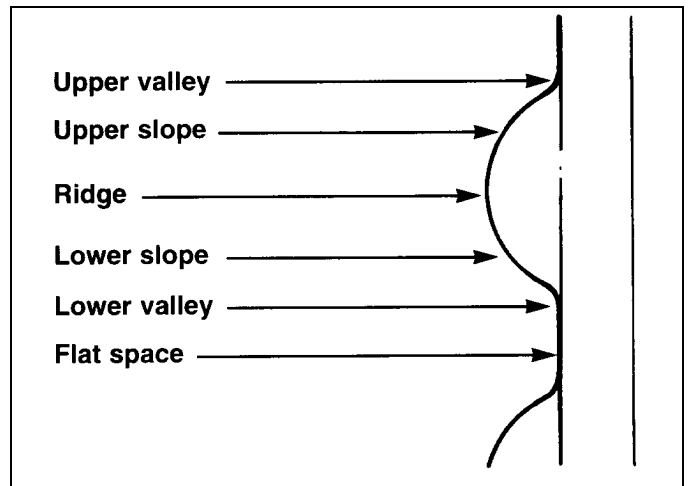
Lower valley

Flat space

ILLUSTRATION #11

Before proceeding with the application sequence, take a moment to carefully study the illustration of a corrugation. (See illustration 11.) As you can see, a corrugation typically consists of two slopes, two valleys, the ridge and the flat space between the corrugations. Proper application of the vinyl requires that you apply firm squeegee pressure to all of these areas to attain good mechanical contact and, consequently, good ultimate adhesion.

1. After removing the liner paper, firmly hold the graphic at the upper corners and initially tack it into position using finger pressure. If you are installing a large graphic, do not remove all of the liner paper at once. Only remove as much liner paper from the film as you can comfortably handle.

2. Squeegee strokes will begin one-quarter to one-half the way down from the top in the center of the emblem. From this center starting point, your stoke will move horizontally to the outer edge. The subsequent stroke returns to the center and moves in the opposite horizontal direction. Alternating the direction of the strokes is very important in the application sequence in maintaining registration.

ILLUSTRATION #12

3. Continuing downward, begin application at a lower valley of a corrugation by running the edge of the squeegee into the valley, (See illustration #12.)

ILLUSTRATION #13

4. Starting at the upper valley, squeegee the flat area between the two valleys. (See illustration #13.)

ILLUSTRATION #14

5. Starting at the center of the graphic, run the edge of the squeegee into the upper valley of the corrugation. (See illustration #14.)
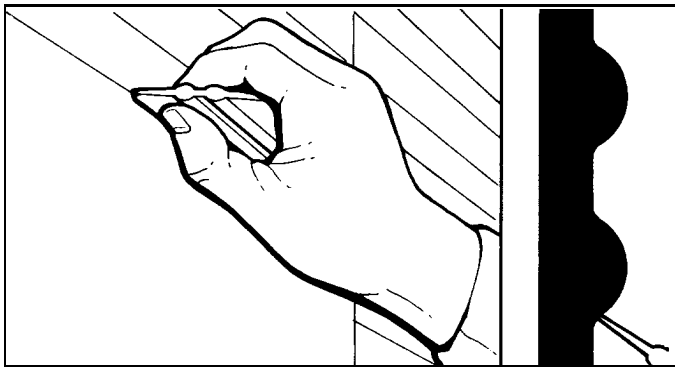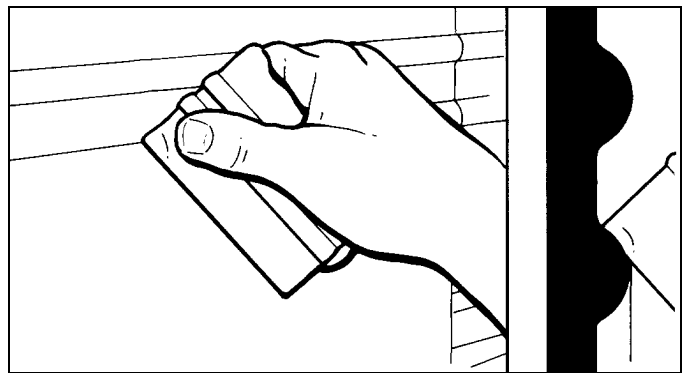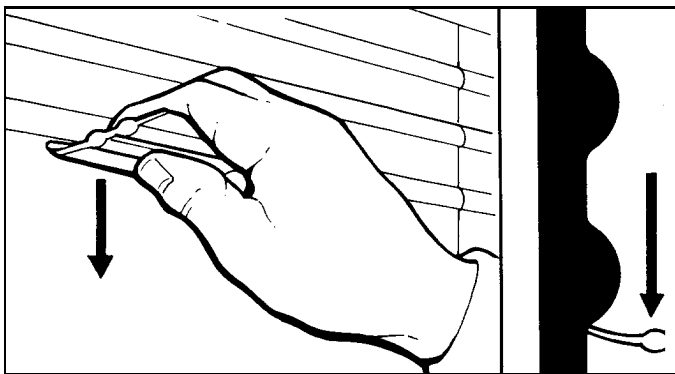

ILLUSTRATION #15

6. Return to the center of the graphic. Using the corner of the squeegee, apply the film to the upper slope. (See illustration #15.)
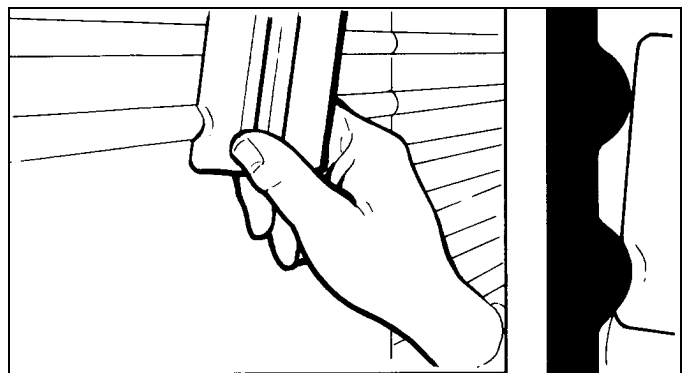

ILLUSTRATION #16

7. Return to the center. With the corner of the squeegee, apply film to the ridge of the corrugation. (See illustration #16).
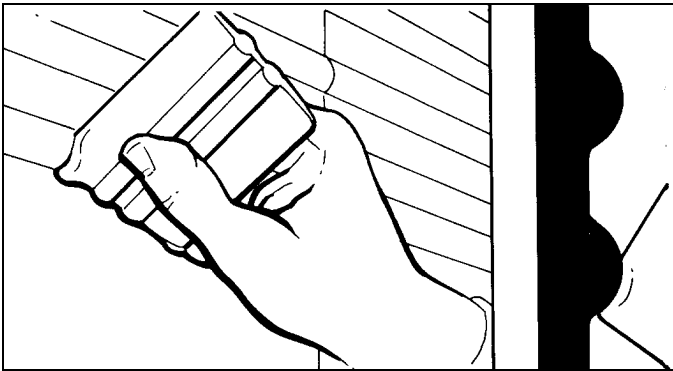
ILLUSTRATION #17

8. Return To the center. Using the corner of the squeegee, apply film to the bottom slope. (See illustration #17).

9. Repeat the procedure.

10. Working upward, start at the center of the graphic. Using the edge of the squeegee, apply the film to the lower slope. (See illustration #17.)

11. Returning to the center, using the edge of the squeegee, apply the film to the ridge. (See illustration #16.)
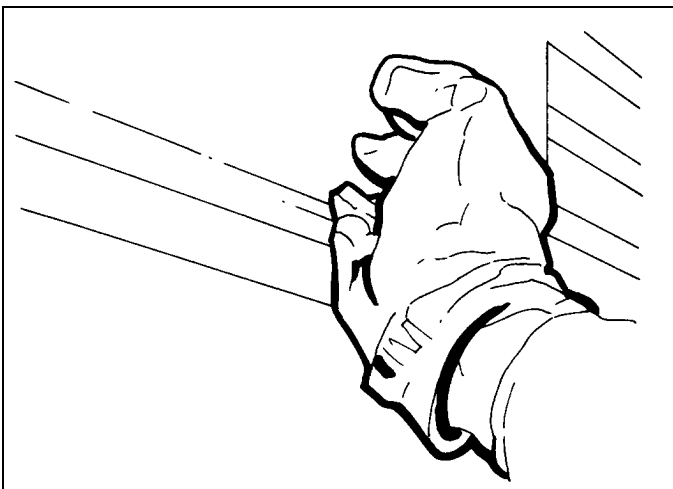
ILLUSTRATION #18

12. Return to the center. Using your thumb (a gloved hand works best), apply the film to the upper slope. (See illustration #18)
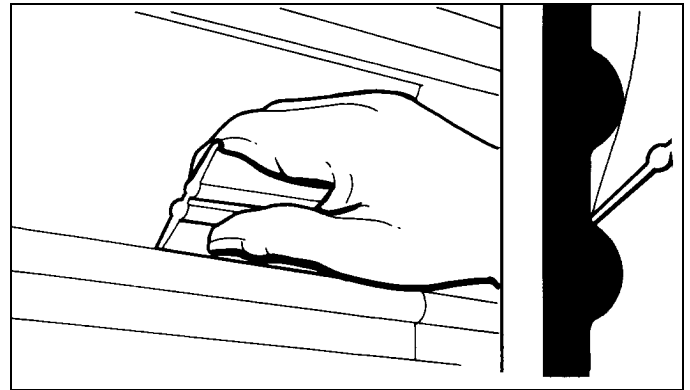
ILLUSTRATION #19

13. Starting at the center, run the edge of your squeegee along the upper valley. (See illustration #19.)

14. Repeat the procedure.

EDGE SEALING – (for vehicle applications)

Once the material has been successfully installed, a sealant such as 3M's Edge sealer 3950 must be applied to all edges of the graphic, including the seams of paneled graphics.

REMOVAL OF TRUCK GRAPHICS

Many factors make removal of vinyl film difficult. As vinyl ages, it becomes brittle. In the removal process, brittle film often cracks into small pieces. This can make film removal tedious and frustrating. In addition, the adhesive frequently delaminates from the facestock. Removing the adhesive can be time consuming and messy. What follows are guidelines and tips on film and adhesive removal.

Basic Tools To soften the film and the adhesive, you will need a heat source. A propane torch or an industrial heat gun will suffice for removing small letters and graphics. For removal of large truck graphics, you will need a big torch such as a weed burn.

We also recommend that you have an assortment of adhesive removers handy such as isopropyl alcohol, Pres Sol@, lacquer thinner, xylene, and a citron-based remover. Before using any chemicals, read and follow the manufacturer's safety precautions. For scraping the softened adhesive off the substrate, you will need squeegees.   Old rivet brushes are also handy for scrubbing adhesive off rivet heads.
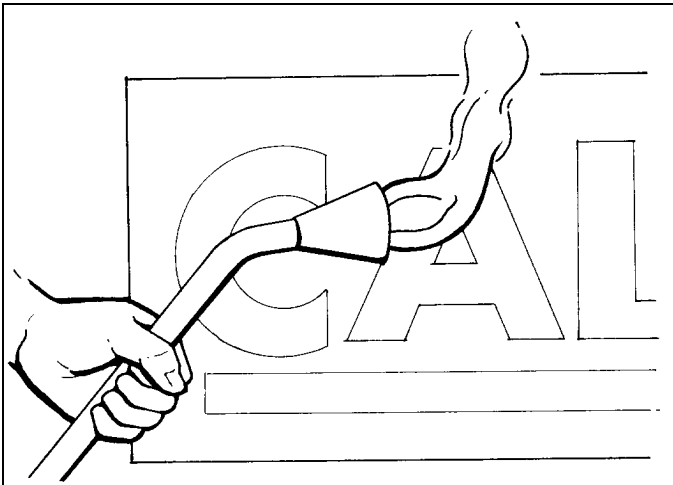
ILLUSTRATION #20

Film Removal Procedure. The first step is to warm up the vinyl with your heat source. A weed burner allows you to heat a large area quickly…and the surface stays warmer, longer. (See illustration #20.) Be sure to keep the flame moving to prevent burning the vinyl or the substrate. This heating process softens the film and the adhesive.
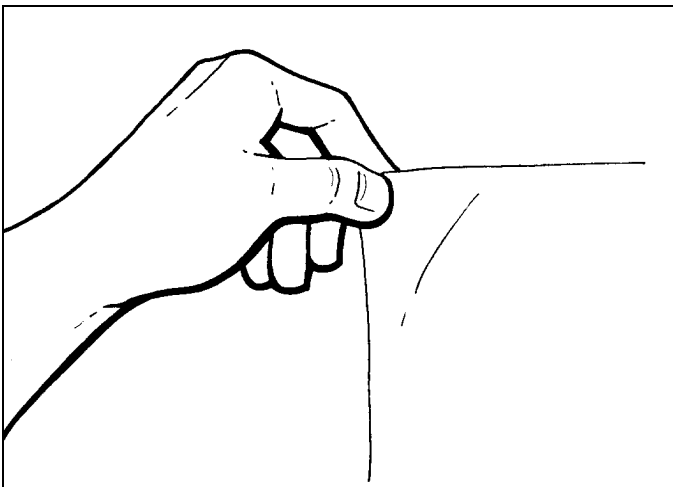

ILLUSTRATION #21

Then, pick at an edge and pull the film from the surface. (See illustration 21.) If the temperature is just right, the adhesive often will come off with the film. (this is a trial and error process.) If the temperature is too hot, the film will stretch too easily and snap.

Adhesive Removal Procedure. When we develop our pressure-sensitive products, our goal is to achieve good adhesive anchorage. This means that the adhesive is designed to adhere better to the facestock than to the substrate. In many cases, the film and adhesive will come off perfectly with heat. In other instances, as the environment acts on the laminate and substrate bond continues to build, you could be left with adhesive residue.

Removing adhesive involves the use of chemicals. When using chemicals, always exercise caution. Read and follow the manufacturer's instructions. The first step in using an adhesive remover is to test the remover on an inconspicuous spot on the truck to see if the remover reacts with the paint.

Next, test the adhesive remover on the adhesive. What worked on the last removal may not work this time. Start with the mildest adhesive remover…if that does not work, try a stronger one.

ILLUSTRATION #22

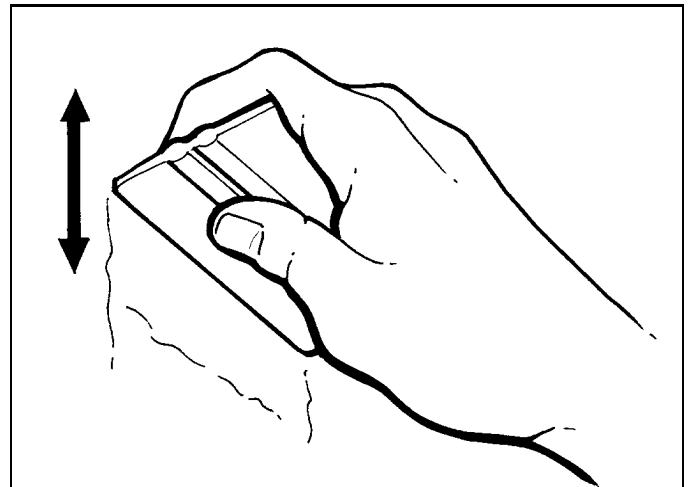After selecting a remover, saturate the adhesive with it. Apply the remover by using a rag, a spray bottle or a pressurized sprayer. Let the remover soften the adhesive to a jelly-like state. Then scrape the gel from the surface with a squeegee. (See illustration 22.)

Use your old rivet brushes to scrub the adhesive off the rivet heads. At this point, paper towels are suggested for complete removal.

CARE AND CLEANING

Proper care of these graphics, however, is critical to achieving the ultimate life and appearance.

In cleaning vinyl graphics, always use a wet non-abrasive cleaner. The cleaner selected should also be free of strong solvents such as MEK, alcohol's, acetone and perchloroethane. The cleaner should also be free of highly acidic and alkaline chemicals.

When you prepare the cleaning solution, always follow the manufacturer's instructions for proper dilution and safe use.

CLEANING PROCEDURE (for overlaminated vinyl):

1. Using clean water, wash the graphics to remove loose dirt. If you are using a pressure wash system, use special care. The nozzle must be at least 12" away from and no shallower than 60° from perpendicular to the graphic. Water temperature should not exceed 140° F, and water pressure should not exceed 1300 PSI. Improper use of a pressure wash system can cause edge lifting of the vinyl.

2. Using a mild detergent, wash the graphic with a soft brush, rag or sponge. Never use a hard bristle brush.

3. Rinse the graphic with clean water. Allow to air dry.

4. If tar or oil remains on the graphic, clean the stains with a rag moistened with mineral spirits, kerosene or a household cleaner such as "Formula 409". Wash again with detergent and water to remove the solvent, then rinse with water.

5. To remove mold and fungus, use a solution of one part bleach and 30 parts water. After cleaning, rinse the graphic with clean water.

Caution:
Commercial drive through brush type car washes are not recommended. Dirt and debris on unlaminated vinyl surfaces can not be removed.

These instructions are intended only as guidelines. The end-user bears the ultimate responsibility for the care of the graphics.

STORAGE

Store unapplied graphics in a clean, dry, cool room. Never subject fabricated graphics to moisture, excessive humidity, direct sunlight or temperatures above 100°F (38°C). Finished graphics should be stored flat, rather than rolled.

APPLICATION PAPER

Application paper may be applied to protect the surface of the ink jet vinyl or laminated vinyl from damage during installation. Application paper (also called transfer tape, premask and prespacing tape) is applied over the completed graphics.

CAUTION: Application paper applied directly onto the imaged surface of DMCVLA3 may cause slight yellowing of the coating. American Biltrite Inc. transfer tape TransferRite® has been found to cause the least amount of yellowing and is recommended for use. 3M tapes have been found to increase the yellowing effect.

Proper lamination of the application paper is a relatively simple procedure.

1. Use application paper with a low tack adhesives. High tack adhesives or tapes may cause coating removal.

2. Use a single sheet of application tape to cover a vinyl graphic rather than using overlapped pieces of tape. Overlapped application tape often results in a line of small bubbles at the overlap.

3. Use care in applying application tape to a vinyl graphic. Wrinkles and bubbles in the application tape often result in wrinkles and bubbles in the installed vinyl. Also, avoid stretching the application paper. This helps prevent poor graphic registration and wrinkles.

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BANNERS
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Valéron® Strength Film Banner Media
For Aqueous, Solvent, Eco-Solvent, Latex and UV Cure Printers

Making all Great Images Count

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MARKET APPLICATIONS

- Pole banners
- Suspension banners (over roads, walkways, entrances)
- Pop-up banners
- Rolling signage

PRODUCT DESCRIPTION

- Super-tough Valéron® polyolefin base
- 12.5 mil (319 microns), 271 gsm
- Opacity: 96%
- Extreme tear resistance
- Indoor / outdoor use
- Recyclable, plasticizer-free, vinyl-free,

GENERAL AVAILABILITY

VSF	Part #
24" x 50'	65023
24" x 10'	70414
36" x 75'	64214
42" x 50'	64954
54" x 75'	64217

Note: 3" core w/ 2" adapter

FEATURES & BENEFITS

- Indoor / outdoor use
- Lower cost than competitive vinyls
- Ultra-smooth printing surface; lightweight
- More strength than many scrim vinyls, even after an initiated tear; tunnel-tested to withstand 70 mph winds; grommets and wind slits will not tear.
- Recyclable – more environmentally friendly product than vinyl.

MEDIA COMPATIBILITY

VSF Can be used on aqueous, solvent, eco-solvent, latex and UC cure printers.

* For complete Magic® product set, refer to Magic Printer Compatibility Chart under Technical Support on www.magicinkjet.com.

* For additional product details – including printer settings and lamination guidelines – see Application Guide under Tech Support of www.magicinkjet.com

* For ICC profile availability, see www.magicinkjet.com

Phone: 1-800-628-8604
Fax: 1-800-861-4128

Disclaimer: Information presented in this product sellsheet is intended to offer a useful reference in selecting media for your output. No media warranties are implied unless specifically mentioned. Printer and / or ink changes may affect results. The most current product information may be found at www.magicinkjet.com.

Date: July 2012

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MAGIC® APPLICATIONS GUIDE

VSF
Valéron® Strength Film

MAGIC® VSF is joint venture product that was developed with VALERON® Strength Films. This strong 12 mil recyclable material is plasticizer-free, vinyl-free, and is an extremely tear-resistant banner material. The product is designed for use with water-based, solvent, eco-solvent, latex and UV cure inks and can be used for both indoor and outdoor applications.

PHYSICAL PROPERTIES

Basis Weight	271 g/m² / 7.9 oz sq/yd	Optimum Print RH:	20-60%	Tensile Strength (MD/CD):	57 lbs/in
Caliper:	12.5 mil (319 micron)	Optimum Print Temp.:	70°F (21°C)	Elongation:	163.5
% Opacity:	96%	Flame Spread:	Not rated	Initiated Tea:r	104 newton
Whiteness:	113	Minimum Exp. Temp:	10° F	Tear Strenght:	1354 newton
Gloss (60°):	2.6	Shelf Life:	1 yr	Indoor Life Expectancy*:	1 yr
			*Base on mfg's accelerated testing w/ pigmented ink. Results may vary.	Outdoor Life Expectancy*:	6 mos

APPLICATIONS GUIDELINES

Application Use: VSF can be used for indoor and outdoor applications. It is ideal for pole banners, suspension banners (over roads, walkways, entrance ways), Pop-up banners, and for front-lit and backlit rolling signage. **Tunnel testing shows that VSF can withstand winds up to 70 mph.**

Printer & Ink Compatibility: VSF may be printed with aqueous, solvent, eco solvent, latex and UV cure print systems such as HP, Epson, Canon, Mimaki, Roland, Nur, Vutek, Mutoh and Nur. Although dye-based inks provide a higher color gamut, ink fade can occur. Use pigmented inks longer lasting images.

Printer Settings: To optimize print quality, printers should be set for the highest print quality. The maximum ink saturation level for aqueous inks is 250%. Use media selection "Heavy Weight Coated Paper" for the most printers. "Super" and "bi-directional" are the printers settings for waterbased piezo wide format printers. Dry-time will vary depending on ink type and the ink saturation level used. For solvent / eco-solvent, the max ink saturation is 350%. Suggested heat settings: preheat 40° C, and 34° C post heat. ICC profiles may be obtained from our website at www.magicinkjet.com.

Water Resistance & Surface Protection: Pigmented inks provide the best long-term UV fade and water resistance. Dye-based inks have a moderate level of water resistance. Over-saturation can affect the waterfast properties. Use a vinyl PSA to protect the surface from dirt and abrasion. Note: Laminating one side can result in curl toward the laminated side.

FINISHING RECOMMENDATIONS

Tape and Stitched Hem: Using high-tack banner tape is preferred to sewing, as sewing can scratch the coating. If sewing, it is recommended that the unlaminated banners be stitched hem side up so that the sewing machine foot comes in contact with only the backside of the banner. For maximum reinforcement, a double stitched hem with a double lock stitch with a maximum of five stitches per inch and corner reinforcements are recommended.

Grommeting: Grommets should be placed in the hemline so that the grommet is through two layers. Corner grommets should be placed through the four overlapping layers. A reinforced corner is also recommended to increase durf

RECYCLING AND DISPOSAL

Disposal by recycling of ink jet media is the preferred method. Where recycle markets do not exist, disposal by landfill or an approved incinerator is acceptable. See Magic Recycle Bulletin @ www.magicinkjet.com

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MAGIC® PRODUCTS APPLICATIONS GUIDE
VSFUV

STRENGTH FILM BANNER

MAGIC® VSFUV is joint venture product that was developed with VALERON® Strength Films. This strong 9 mil recyclable material is plasticizer-free, vinyl-free, and is an extremely tear-resistant banner material. The product is designed for UV cure printing systems using flexible ink sets.

PHYSICAL PROPERTIES

Key Product Features
Plasticizer-Free
Vinyl-Free
Extreme Tear Strength
Light Weight
Water & UV Resistant
Ultra Smooth Surface
Recyclable

Caliper: . . . . 9.0 mil

Whiteness: 92

Gloss (60°): 23

Opacity: 96%

Tensile Strength: . . . . .57 Lbf
% Elongation: 163.5%
Initiated Tear: . . . . .104 Newton
Tear Strength: . . . . .1354 grams
Indoor Life Expectancy . . . . .1 year+
Outdoor Life Expectancy . . . . 6 months with no lamination
Not fire rated for flammability

APPLICATIONS GUIDELINES

Application Use: VSFUV can be used for indoor and outdoor applications. It is ideal for pole banners, suspension banners (over roads, walkways, entrance ways), Pop-up banners, and for front-lit and backlit rolling signage. Tunnel testing shows that VSF can withstand winds up to 70 mph.

Printer & Ink Compatibility: VSFUV is designed to offer exceptional print performance on UV cure printing systems using flexible ink sets.

Water Resistance & Surface Protection: This product is considered water resistance. This film surface can be damaged from excessive folding or creasing, so overlaminating is recommended for protection.

Material Handling & Storage: Once print is completed, roll imaged media onto a core until ready for use. Folding is not recommended. After use, the roll should be stored in its original packaging in the poly bag at 59-86˚F / 15-30˚C and 30-70% RH.

FINISHING RECOMMENDATIONS

Tape & Stitched Hem: Standard high-tack banner tape can be used and is preferred to sewing, as the sewing process can scratch the film surface. Follow the guidelines of the tape manufacturer. If sewing, it is recommended that the unlaminated banners be stitched hem side up so that the sewing machine foot comes in contact with only the backside of the banner. For maximum reinforcement, a double-stitched hem with a double lock stitch, with a maximum of five stitches per inch and corner reinforcements are recommended.

Grommeting: Grommet and wind slits will not tear. VSFUV exhibited excellent results during Grommet Pullout Resistance testing. Grommets should be placed in the hemline along the length of the banner so that the grommet is through two layers. Corner grommets should be placed where the length and width hems cross, so the grommet is through four layers. Reinforced corners can be used to further increase durability.

Laminating: A vinyl pressure-sensitive overlaminate may be used. However, overlaminating one side may cause the product to curl toward the laminated side.

RECYCLE AND DISPOSAL

Disposal by recycling of ink jet media is the preferred method. Where recycle markets do not exist, disposal by landfill or an approved incinerator is acceptable. See the Magic Technical Bulletin @ www.magicinkjet.com.

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INK JET CUSTOM WALL MURALS

A variety of Magic® ink jet products can be used to produce digitally printed custom decorative wall murals for both residential and commercial applications. DMiBOP10 is available for use with aqueous wide format ink jet printers and its universal inkjet coating is compatible with solvent, eco-solvent, UV cure and latex print systems. The GFIOP14, GFIOP212, Pebble, Weave and Sleek products are available for solvent, UV cure and latex ink jet printers. Postermax, Pebble, Weave and Sleek can be printed on eco-solvent inkjet printers. These products have unique physical properties which make printing and installing custom wallcovering easy. GFIOP140, GFIOP212 and Postermax latex-saturated wet strength media are lower in cost but not lower in quality. For those applications where higher tear strength is needed, use DMiBOP10 because of its nylon-reinforced base. For unique textured wallcoverings use durable Pebble and Weave, while SLEEK has the convenience of being pre-pasted.

PHYSICAL PROPERTIES

	DMiBOP10	GFIOP140	GFIOP212	POSTERMAX	SLEEK	PEBBLE	WEAVE
Basis Weight (oz/yd^2):	6.6	4.1	6.2	8.5	6.7	8.5	8.5
Basis Weight (g/m^2):	225	140	212	217	228	293	290
Caliper (mil):	11.3	6	9.9	8.5	9.6	21	15
Caliper (microns):	288	153	253	217	245	535	383
% Opacity:	97	95	95	95	98	98	98
Whiteness:	104	83	83	83	78	88	91
% Wet Expansion:	3	2	2.07	2.07	TBD	TBD	TBD
Tensile Strength (#/in)	52/33	50/37	60/48	60/48	38/55	36/22	36/22
Tear Strength (g)	115/110	115/110	200/185	200/185	200/190	TBD	TBD
% Elongation (MD/CD):	30/60	9.3/16	8/14	8/14	TDB	1/3	1/3

PRINTING GUIDELINES

Application: The products are designed for murals, wallcovering, custom decor, posters, banners and maps.

Ink Compatibility:

	DMiBOP10	GFIOP212	GFIOP140	POSTERMAX	SLEEK	PEBBLE	WEAVE
Aqueous	√						
Solvent	√	√	√	√		√	√
Eco-Solvent	√			√		√	√
Latex	√	√	√		√	√	√
UV-Cure	√	√	√		√	√	√

Printer Guidelines: It is recommended to use pigmented inks when using DMiBOP10 with water-based inks as dye based inks are not waterfast and can fade. Compatible aqueous ink printers include HP Designjet's, Canon IPF series and Epson Stylus Pro's. GFIOP140, GFIOP212, Postermax, Sleek, Weave and Pebble products can be used in solvent ink printing systems such as: Vutek, Mimaki, Nur/Salsa, and Idanit/Scitex printers. Postermax, Sleek, Weave and Pebble can be used on eco-printers, including Roland, Mutoh and Epson GS.
To optimize print quality, printers should be set for high print quality. It's recommended to uses Heavy Coated Paper settings. Optimized printer settings will vary from printer manufacturer. For solvent printing, start with 60°C for pre-heat and 50°C for post heat. Check the magicinkjet.com website for available ICC color profiles. Due to the heavy gauge of the materials, the products can feed through the printers at different rates causing print size to vary slightly from print to print. Images sized in a software application may be printed slightly smaller than anticipated.

Water Resistance and Surface Protection: To obtain a high degree of water resistance use pigment inks. Liquid lamination such as Marabu (Clear Star Corp) ClearShield is recommended for DMiBOP10, as dirt and stains cannot be cleaned from the ink jet surface. Excessive folding or creasing of the media may cause damage. Ink coverage of up to 250% is recommended, because higher ink saturation can affect the water fast properties and show ink bleed in heavy saturation areas. Vinyl and polyester laminates are not recommended.

WALLCOVERING INSTALLATION GUIDELINES

Consult with and use a professional paperhanger to perform the installation.

Surface Preparation:
* Wall should be prepped to a smooth, clean, and dry surface prior to installation. Remove all old wallcovering from wall. Wallcovering
   will not hide wall flaws such as: nail holes, bumps, or dirt.
* Primer sealer should be used on unpainted drywall. Use acrylic wallcovering primers: Professional Ultra Prime (PRO-977), Golden
   Harvest White Bite, or Allpro Ultra Prep 685. Priming provides a sound surface that wallcovering will adhere to.
* Strip down previous layer(s) of wallcovering. The wallcovering may seem to be firmly adhered to the wall, but the addition of another
   layer can cause adhesion failure.
* Prime over glossy paint with one of the above mentioned primers.

Paste Information for un-pasted wallcover:
* Clear adhesives such as Professional Ultra Premium Heavy Duty Clear Strippable (PRO-880), Golden Harvest GH-34 Clear
   Stripable, and Allpro Pro-Duty 3400 provide good adhesion and allow for easier stripping when the wall covering is to
   be removed or replaced.
* Clay adhesives such as Professional Extra Strength (PRO-732), Professional Clay Strippable (PRO-774), Golden Harvest GH-
   40, Allpro Extra Strength Vinyl 600, and Allpro Clay Strippable 661 have also been shown to be effective both during
   installation and the removal of these wallcovering materials.
* Pastes such as Professional Heavy Duty Clear PRO-838 or Allpro Clear Hang 610 have a more aggressive adhesion and
   should be used for more permanent applications.
* Vinyl over vinyl pastes tend to dry too quickly on these products and are not recommended.
* Apply a coat of the adhesive using a 1/2" nap paint roller. Book for 10 minutes.

Pre-Pasted Sleek™ Information:
*Apply water on back of each panel/strip with a roller or submerse each panel/strip in a wallpaper tray to activate adhesive. "Book" the wa
   by folding the paste side on itself.

Hanging information:
* Do not use tape on imaged surface.
* Align top and adjoining edges. Smooth panels into place with a smoothing brush, starting at the center of the panel working
   toward the edges.
* Use a plastic smoother to push air pockets to the edges.
* The low wet expansion of these products allows double cutting at the seams. Overlapping the seams is not recommended.

Removal instruction: Start at the top of the wallpaper and carefully separate a full width strip about 8" down from the top away from the surface. If beginning the removal process you are unable to separate the paper from the surface, apply water with a damp sponge to moisten the paper surface. With both hands, slowly pull the paper at the downward angle.   Any remaining adhesive can be removed with a damp sponge.

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PAPERS
Magic® WEAVE AND PEBBLE COMMERCIAL WALLCOVING

Making all Great Images Count

MARKET APPLICATIONS

- Digital wallcoverings
- Murals

PRODUCT DESCRIPTION

- Paperback textured vinyl wallcoverings
- 290gsm (14.5 mils) and 293gsm (21.3 mils)
- Paste-able paper backing

GENERAL AVAILABILITY

	WEAVE	PEBBLE
Sizes	Part #	Part#
24"x15'	72193	72194
54"x150'	72191	72192

FEATURES & BENEFITS

- The non-glare textured surface is designed to mask dirt and finger prints.
- Bright white for vivid color reproduction.
- Meets USA Type ll on washability, scrubbability, abrasion, dry crocking and heat aging resistance.
- Installs easily around corners.

MEDIA COMPATIBILITY

WEAVE and PEBBLE are compatible with most solvent, eco-solvent UV cure and latex printers. For additional information, visit www.magicinkjet.com.

- For complete Magic® product set, refer to Magic Ink Jet Compatibility Charts under the Tech Support and Downloads tab.

- For additional product details, including printer settings and finishing guidelines, refer to the Application Guides under the Tech Support and Downloads tab.

- For ICC profile availability, refer to the ICC Profile Search tab.

Phone: 1-800-628-8604
Fax: 1-800-861-4128

Disclaimer: Information presented in this product sellsheet is intended to offer a useful reference in selecting media for your output. No media warranties are implied unless specifically mentioned. Printer and / or ink changes may affect results. The most current product information may be found at www.magicinkjet.com.

Date: March 2014

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WEAVE™ and PEBBLE™
COMMERCIAL WALLCOVERINGS

Magic WEAVE™ and PEBBLE™ are paperback textured vinyl wall coverings suitable for solvent, eco solvent, latex and uv-curable inks. WEAVE™ has a traditional woven appearance to create a beautiful canvas finish while hiding surface imperfections. PEBBLE™ has a bold stucco-like surface to add depth to designs and wall graphics while hiding surface imperfections. WEAVE™ and PEBBLE™ are ideal for murals, wallcovering, POP displays and decals and is fire rated Euro class B s2d0.

PHYSICAL PROPERTIES

Parameter	WEAVE	PEBBLE
Basis Weight	293	290
Caliper	14.5	21.3
Tensile (MD/TD)	36/22	36/22
Elongation (MD/TD)	1%/3%	1%/3%
Whiteness	91.30	88.01
Gloss (60)	1.9	1.6
Brightness	90.89	89.10
Flame Spread Classifications	Euro Class B s2d0	
Optimum Printing Conditions	70°F (35-70% RH)	

APPLICATIONS GUIDELINE

Printer & Ink Compatibility: WEAVE & PEBBLE may be printing on most solvent, eco solvent, latex and UV-curable printing systems such as: Vutek, Mimaki, Roland, Mutoh HP, Nur/Salsa and Idanit/Scitex.

Printer Guidelines: To optimize print output printers should be set for highest print quality. It's recommended to use Heavy Coated Paper settings. Optimized printer settings will vary from printer manufacture. For solvent printing: 42°C for pre-heat and 45°C for post heat. Check the magicinkjet.com website for available ICC color profiles. Due to the heavy gauge of the material, this product can feed through the printers at different rates causing print size to vary slightly from print to print. Images sized in a software application may be printed slightly smaller than anticipated.

Water Resistance and Surface Protection: WEAVE & PEBBLE are water resistance when using recommended profile and settings. Surface protection not recommended.

WALLCOVERING INSTALLATION GUIDELINES

Wall Preparation: Before applying paper-backed contract vinyl wallcovering, walls should be smooth, clean, dry and free of mold or algae. Remove all old wallcovering from wall.

Paste Information: Can be pasted and hung just like standard wallcovering material. Standard pastes such as Henkel Metylan Cellulose Wallpaper Paste provide adequate adhesion and allow for easier stripping when the wallcovering is to be removed or replaced. Mixing instructions for most standard wallpaper pates include water measure for both yield and high tack concentrations. Heavy Duty pastes such as Supron Supro Clear 34, Harvest 1st Choice GH34, and Rowan Professional Heavy Duty Clear Pro 838 come premixed, have a more aggressive adhesive, and are recommended for more permanent applications.

Application: Align top and adjoining edges. All panels should be smoothed into place with a smoothing brush, starting at the center of the panel working toward the edges. Use a plastic smoother to push air pockets to the edges.

Removal instruction: Substrate can be easily removed by soaking it with warm water mixed with mild household detergent and a wall covering stripping knife.

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