

**PRODUCT  
INFO****ClearShield® Wall Armor****Tested, Proven & Certified**

ClearShield Wall Armor is specifically formulated for digitally printed wall covering applications. Wall Armor not only offers the unbeatable protection that the ClearShield line of liquid coatings is known for, it also has the added benefit of being a Type II Certified Solution\* for commercial applications. Wall Armor offers stain, scratch and abrasion resistance as well as fire retardancy.

**Applications**

ClearShield Wall Armor is compatible with latex, eco-solvent and UV-curable inks. Users can apply the coating either by hand or by automated liquid laminating equipment, such as Marabu's StarLam 1600R Roll-to-Roll liquid laminator. It is the clear choice for any wall covering application.

**Retail Store Displays****Hotels****Restaurants****Healthcare Facilities****Commercial Buildings**

\*ASTM F793 Type II Certification is based on HP Generation I, Generation II and Generation III Latex Inks printed on DreamScape Matte, DreamScape Suede or KoroGraphics Abaco Beach Wall Covering coated with ClearShield Wall Armor. Test results may vary depending on coating application method as well as ink and media combination.

**Compatible Substrates**

These wall coverings have been tested and have proven to work well with ClearShield Wall Armor.

**DreamScape Matte****DreamScape Terralon****KoroGraphics Abaco Beach****PhotoTex****Ultraflex Wallscapes Suede****Application Methods****Manual or Hand Application**

→ Apply two coats with a short-nap roller. Allow the coating to dry completely between coats.

**Automated Liquid Laminators**

→ ClearShield can be used on most automatic flood coaters, including the StarLam 1600R Roll-to-Roll liquid laminator. Type II Certification is dependent on using a StarLam Roll-to-Roll laminator to apply Wall Armor.

**HVLP Spray Gun**

→ ClearShield is easy to apply using an HVLP gravity-fed spray gun. We recommend using a 1.3 to 1.6mm tip and a psi of 45 - 55.

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## Category V Type II Tests

Type II Certification Test	Requirement	Result
Colorfastness	≥ 200h	Pass
Washability	≥ 100 cycles	Pass
Scrubbability	≥ 300 cycles	Pass
Abrasion Resistance	≥ 300 Cycles	Pass
Cracking, Drying	Good	Pass
Stain Resistance to Reagents	4	Pass
Flame Spread	≤ 25	Pass



The StarLam 1600R Roll-to-Roll Liquid Laminator is easy to operate and applies a smooth, even layer of ClearShield Liquid Laminates over a variety of substrates. The StarLam 1600R is the simple and quick way to apply and cure ClearShield Wall Armor on your wall covering applications. For more information on the StarLam 1600R Roll-to-Roll laminator, visit us online at [www.marabu-northamerica.com](http://www.marabu-northamerica.com)

## Stain Resistance

Reagent	Rating*
75° Distilled Water	5
120° Distilled Water	4
50% Ethyl Alcohol	4
Vinegar	5
1% NaOH Solution	4.5
5% HCL	5
Standard Soap Solution	4.5
Detergent Solution	4.5
Orange Juice	5
Butter	5
Ketchup	4
Tea	4.5

\*The rating system is based on the AATCC Nomenclature for Subjective Rating Processes in which a rating of 5 = negligible or no staining, 4 = slight staining, 3 = noticeable staining, 2 = considerable staining, and 1 = severe staining. A rating of less than 4 is considered "appreciable" in relation to severity of change.

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