



Performance, Variety, Flexibility



ClearShield water-based liquid coatings offer the same protection as film laminates while saving as much as 60% in production costs. UV-protection, chemical resistance, abrasion resistance and flexibility are just some of the benefits of protecting your digital prints with ClearShield liquid coatings. To ensure maximum protection our coatings are specifically formulated for a variety of inks and applications such as banners, wall coverings, canvas prints and vehicle graphics.

Performance

ClearShield liquid coatings offer industry leading UV-protection, chemical resistance, and mar resistance. Our state of the art UV-inhibitors and HALS (hindered amine light stabilizers) provide superior protection for less. Long term UV stability is dependent on many factors including coating thickness, type of ink used, and the type of substrate coated.

Application Methods

Manual "Brush & Roll" Application

→ Use the ClearShield coating as supplied, brush and roll onto your print using a short-nap roller or a white high-density foam roller. Apply two coats, waiting approximately an hour between coats for the ClearShield to completely dry.

Automated Liquid Laminators

→ ClearShield can be used on most automatic flood coaters, including the StarLam 1600R Roll-to-Roll liquid laminator.

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.

Applications

- **Banners**
- **Billboards**
- **Canvas Prints**
- **Signage**
- **Wall Covering**
- **Vehicle Graphics**
- **Truck-Side Curtains**

Physical Properties

Viscosity

- ClearShield Classic 30 - 35 sec. Zahn # 3
- ClearShield Classic Lite 20 - 26 sec. Zahn # 2

VOC

- 48 g/L

PH

- 8.5 - 9.0



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FORMULATION	DESCRIPTION	HOW TO APPLY	FINISHES
ClearShield Select	Made with the latest advancements in water based coating technology, Select offers superior UV protection, chemical and abrasion resistance. It is intended to be applied with a roller or spray equipment on a wide range of digitally printed products including pressure sensitive vinyl, banners and rigid substrates.	<ul style="list-style-type: none"> • Short-Nap Roller • High-Density Foam Roller 	<ul style="list-style-type: none"> • Gloss • Semi-Gloss • Matte
ClearShield Select for the StarLam	Made with the latest advancements in water based coating technology, Select for the StarLam offers superior UV protection, chemical and abrasion resistance. It is specifically formulated to be used with roll to roll liquid laminators like the StarLam 1600R on a wide range of digital printed products including pressure sensitive vinyl, banners and fleet graphics. Liquid laminators are an efficient cost effective way to protect your digital prints.	<ul style="list-style-type: none"> • StarLam Liquid Liquid Laminator or other liquid laminators 	<ul style="list-style-type: none"> • Gloss • Semi-Gloss • Satin • Matte
ClearShield Wall Armor	Wall Armor is a Type II certified solution for wall coverings. Wall Armor is compatible with latex, solvent, and UV inks. It provides scratch and abrasion resistance and makes cleaning digitally printed walls carefree.	<ul style="list-style-type: none"> • Short-Nap Roller • High-Density Foam Roller • Spray Gun • StarLam Liquid Liquid Laminator or other liquid laminators 	<ul style="list-style-type: none"> • Satin
ClearShield Canvas Guard	Developed for fine art and Giclee prints on canvas. Canvas Guard is highly flexible allowing canvas prints to be stretched without cracking while adding durability and UV protection. Canvas Guard is compatible with water, solvent and latex inks. For high volume applications, ask about coating canvas with the StarLam liquid laminator.	<ul style="list-style-type: none"> • Short-Nap Roller • High-Density Foam Roller • Spray Gun • StarLam Liquid Liquid Laminator or other liquid laminators 	<ul style="list-style-type: none"> • Gloss • Semi-Gloss • Satin • Matte
ClearShield Professional Series	This series of coatings are intended for the most demanding applications. This two-part system provides the ultimate scratch and abrasion resistance. Ideal for truck tarpaulins and inflatables. Compatible with solvent, UV and latex inks.	<ul style="list-style-type: none"> • Short-Nap Roller • High-Density Foam Roller 	<ul style="list-style-type: none"> • Gloss
ClearShield Classic & Classic Lite	Our time tested formulas used for protecting digitally printed substrates. Classic is a high viscosity product ideal for use with a roller or brush. Classic Lite can be applied using HVLP equipment.	<ul style="list-style-type: none"> • Short-Nap Roller • High-Density Foam Roller • Spray Gun 	<ul style="list-style-type: none"> • Gloss • Semi-Gloss • Satin • Matte

***Don't forget about our ClearJet solvent based laminates and MaraShield UV based laminates**



The StarLam 1600R Roll-to-Roll Liquid Laminator is easy to operate and applies a smooth, even layer of ClearShield Liquid Coatings over a variety of substrates. The StarLam is ideal for large volume production environments and store-front shops alike. For more information on the StarLam 1600R Roll-to-Roll laminator, visit us online at www.marabu-northamerica.com