TriFLEX® HL

ADVANCED POLYMER COATINGS

Triple Resin Protection
Built for Long-Term Hopper Car Service

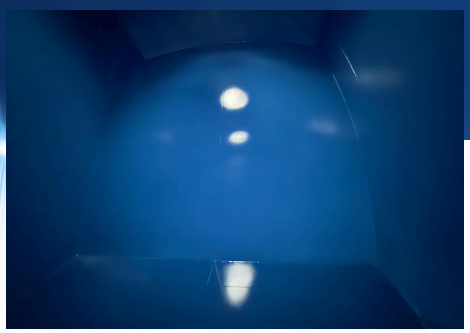
TriFLEX® HL (Hopper Lining) is a triple-resin, direct-to-metal interior lining system specifically engineered for hopper cars.

It combines advanced resin technologies to deliver durable, long-lasting protection in demanding rail service. TriFLEX® HL has been independently assessed as safe for its intended use as an interior railcar coating for the repeated transport of food-contact polyethylene and polypropylene resin pellets.

Property	TriFLEX® HL
Pot Life	1 hour at 77ºF (25ºC)
Sag	16 mil (400 microns)
Dry to Touch	2 - 3 hours
Conversion	~80% after 3 days
Hardness	Shore D 80 ± 5 (ASTM D2240)
Gloss (60')	65 - 70
Direct & Reverse Impact (in-lb)	> 160 (ASTM D2794)
Adhesion (psi)	~2,500 (ASTM D4541)
VOC	152 g/L (1.27 lb/gal)
% Solids by Volume	84%







Designed around the **Realities of Hopper Car Service.**

Repeated Loading & Unloading

Engineered to withstand the mechanical demands associated with dry bulk resin pellet transportation.

Impact **Resistance**

ASTM D-2794: No cracking, chipping, or damage on either direct or reverse impact when tested up to 160 in-lb. Most coatings fail at 80 in-lb direct impact.

Vulnerable Geometry

Strong edge retention helps maintain film build around sharp edges, corners, weld seams, and difficult geometries while enhanced flexibilty handles the stress of everyday rail operations.

Enhanced **Flexibility**

ASTM D522: Panels can be folded in half with no signs of cracking or tearing.

Edge **Retention**

MIL-PRF-23236D / NACE: Maintains an average of 71.7% coating thickness over sharp edges, exceeding the 70% passing requirement.

