Railplex® 2.8 LH Enamel

PRODUCT DATA SHEET

SELECTION & SPECIFICATION DATA

Generic Type	A single package high solids gloss alkyd Direct to Metal (DTM) or top coat
Description	A single package high solids gloss alkyd Direct to Metal (DTM) or top coat designed to provide very good corrosion resistance, weathering and dry speed for railcar exterior.
Features	• Single coat high solids direct to metal or top coat • Very Low HAPS & VOC • Easy one coat high build coverage • Excellent adhesion • Very good resistance to corrosion • Ready to use viscosity • Good color and gloss retention • Excellent initial gloss
Color	Black or White
Gloss	80-90° ASTM D523 @ 60° angle
Dry Film Thickness	2 - 3 mils (51 - 76 microns) single coat
Solids Content	By Volume 50% +/- 3%
Theoretical Coverage Rate	802 ft²/gal at 1.0 mils (19.7 m²/l at 25 microns) 401 ft²/gal at 2.0 mils (9.8 m²/l at 50 microns) 267 ft²/gal at 3.0 mils (6.6 m²/l at 75 microns) Allow for loss in mixing and application.
VOC Value(s)	Per EPA Method 24: 2.8 lbs/gal (336 g/l) This product contains US EPA VOC-exempt solvent(s).

SUBSTRATES & SURFACE PREPARATION

General	Designed to be applied direct to metal in a single or two coat application.
Steel	Severe service applications – blasted to SSPC-SP-10 to a 1.5-2.5 mil angular profile Lesser service applications – blasted to SSPC-SP-6 Surface to be free of all looser rust, dirt, grease and other contaminants
Aluminum	Remove all surface contaminants and treat with Strathmore's Wash Primer or equivalent.

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PERFORMANCE DATA

All test data was generated under laboratory conditions. Field testing results may vary.

Test Method	System	Results
Adhesion (ASTM D3359)	Railplex 2.8 LH Enamel	5B (no peeling or removal)
Conical Mandrel Flexibility (ASTM D522)	Railplex 2.8 LH Enamel	Passes 1/8”
Hardness (ASTM D3363)	Railplex 2.8 LH Enamel	2B
Impact Resistance (ASTM D2794)	Railplex 2.8 LH Enamel	Up to 40 lbs.in (Direct) and 40 lbs.in (Rev)
QUV Resistance (ASTM G154)	Railplex 2.8 LH Enamel	336 hrs- QUV UVA-340 Bulb

Corrosion Resistance: 500 hrs at 3 mils DFT (ASTM B117)

MIXING & THINNING

Mixing | Agitate thoroughly

Thinning | Not Recommended

APPLICATION EQUIPMENT GUIDELINES

Listed below are general equipment guidelines for the application of this product. Job site conditions may require modifications to these guidelines to achieve the desired results.

Airless Spray

- 45:1 Airless spray equipment
- Tip Size: 0.015 to 0.019
- Pump Pressure: 3500-4500 psi (24-31 MPa)

To minimize or eliminate thinner use in-line heated equipment with insulated hoses to reach application vis. Do not exceed 165°F (74°C).

APPLICATION CONDITIONS

Condition

Must be a minimum of 5°F (3°C) above the dew point during the surface preparation and coating application

CURING SCHEDULE

Surface Temp.	Dry Hard	Dry to Handle	Minimum Recoat Time	Dry to Touch	Maximum Recoat Time
70°F (21°C)	24 Hours	1.5 Hours	1.5 Hours	20 Minutes	7 Days

Force Cure | If car is force dried, 1 hr minimum air dry @75°F (23°C) before oven. Then force dry @ 145°F (60°C) for 1 hour, adjusting for ambient maximum conditions.

CLEANUP & SAFETY

Cleanup | MEK may be used for clean up. Batch mixed material will set up in the lines and equipment if left overnight. With plural component equipment, be sure to flush from the mixing head through the delivery hose and guns.

CLEANUP & SAFETY

Safety	Handle with care. Before and during use, observe all safety labels on packaging and paint containers and follow all caution statements on this product data sheet. Consult Safety Data Sheet (SDS) for this product and follow all local or national safety regulations. Employ normal safety precautions.
Ventilation	When used in enclosed areas, thorough air circulation must be used during and after application until the coating is cured. The ventilation system should be capable of preventing the solvent vapor concentration from reaching the lower explosion limit for the solvents used. User should test and monitor exposure levels to ensure all personnel are below guidelines. If not sure or if not able to monitor levels, use MSHA/NIOSH approved respirator.

PACKAGING, HANDLING & STORAGE

Packaging	55 gallon drums or 5 gallon pails
Shelf Life	One year from date of manufacturing When kept at recommended storage conditions at 70°F (21°C) and in original unopened containers. Do not use material beyond shelf life.
Storage Temperature & Humidity	Do not store at temperatures above 100°F (38°C).
Storage	Containers must be closed tightly. Do not store outside. Rotate stock.

WARRANTY

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