

## SELECTION & SPECIFICATION DATA

<b>Generic Type</b>	A single package high solids gloss alkyd Direct to Metal (DTM) or top coat
<b>Description</b>	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.
<b>Features</b>	<ul style="list-style-type: none"> <li>• Single coat high solids direct to metal or top coat</li> <li>• Very Low HAPS &amp; VOC</li> <li>• Easy one coat high build coverage</li> <li>• Excellent adhesion</li> <li>• Very good resistance to corrosion</li> <li>• Ready to use viscosity</li> <li>• Good color and gloss retention</li> <li>• Excellent initial gloss</li> </ul>
<b>Color</b>	Black or per customer requirements
<b>Gloss</b>	80-90° ASTM D523 @ 60° angle
<b>Dry Film Thickness</b>	2 - 3 mils (51 - 76 microns) single coat
<b>Solids Content</b>	By Volume 50% +/- 3%
<b>Theoretical Coverage Rate</b>	802 ft <sup>2</sup> /gal at 1.0 mils (19.7 m <sup>2</sup> /l at 25 microns) 401 ft <sup>2</sup> /gal at 2.0 mils (9.8 m <sup>2</sup> /l at 50 microns) 267 ft <sup>2</sup> /gal at 3.0 mils (6.6 m <sup>2</sup> /l at 75 microns) Allow for loss in mixing and application.
<b>VOC Value(s)</b>	Per EPA Method 24: 2.8 lbs/gal (336 g/l)

## SUBSTRATES & SURFACE PREPARATION

<b>General</b>	Designed to be applied direct to metal in a single or two coat application.
<b>Steel</b>	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
<b>Aluminum</b>	Remove all surface contaminants and treat with Strathmore's Wash Primer or equivalent.

## PERFORMANCE DATA

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)

# Railplex 2.8 LH Enamel

## PRODUCT DATA SHEET



### 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
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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.

**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 workmanlike 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

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## PACKAGING, HANDLING & STORAGE

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<b>Shelf Life</b>	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.
<b>Storage Temperature &amp; Humidity</b>	Do not store at temperatures above 100°F (38°C).
<b>Storage</b>	Containers must be closed tightly. Do not store outside. Rotate stock.

## WARRANTY

To the best of our knowledge the technical data contained herein is true and accurate on the date of publication and is subject to change without prior notice. User must contact Carboline Company to verify correctness before specifying or ordering. No guarantee of accuracy is given or implied. We guarantee our products to conform to Carboline quality control. We assume no responsibility for coverage, performance, injuries or damages resulting from use. Carbolines sole obligation, if any, is to replace or refund the purchase price of the Carboline product(s) proven to be defective, at Carbolines option. Carboline shall not be liable for any loss or damage. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY CARBOLINE, EXPRESS OR IMPLIED, STATUTORY, BY OPERATION OF LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. All of the trademarks referenced above are the property of Carboline International Corporation unless otherwise indicated.