

**SELECTION & SPECIFICATION DATA**

<b>Generic Type</b>	High solids epoxy polyamide
<b>Description</b>	A 1:1, high solids polyamide epoxy designed to provide very good corrosion resistance as a single coat, direct-to-metal (DTM) exterior coating for railcars and other structures. While all epoxies will chalk and yellow under UV exposure, this coating has good color and gloss retention better than most.
<b>Features</b>	<ul style="list-style-type: none"> <li>• Single coat direct to metal high solids epoxy</li> <li>• Very Low HAPS</li> <li>• Easy one coat high build coverage</li> <li>• Excellent adhesion</li> <li>• Very good resistance to corrosion and spillage /splash of mild chemical</li> <li>• Good initial gloss and very good color &amp; gloss retention</li> <li>• Ready to use viscosity</li> </ul>
<b>Color</b>	Per customer requirements
<b>Gloss</b>	80-90+ Per customer requirements (ASTM D523 @ 60° angle)
<b>Dry Film Thickness</b>	4 - 6 mils (102 - 152 microns) per coat Do not exceed 12 mils (300 microns)
<b>Solids Content</b>	By Volume 64% +/- 3%
<b>Theoretical Coverage Rate</b>	1027 ft <sup>2</sup> /gal at 1.0 mils (25.2 m <sup>2</sup> /l at 25 microns) 257 ft <sup>2</sup> /gal at 4.0 mils (6.3 m <sup>2</sup> /l at 100 microns) 171 ft <sup>2</sup> /gal at 6.0 mils (4.2 m <sup>2</sup> /l at 150 microns) Allow for loss in mixing and application.
<b>VOC Values</b>	<b>As Supplied</b> : Per EPA Method: 2.4 lbs / gal (288 g/l)

**SUBSTRATES & SURFACE PREPARATION**

<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 loose 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	Results
Adhesion (ASTM D3359)	5A (no peeling or removal)
Conical Mandrel (ASTM D522)	Passes 1/8"
Hardness (ASTM D3363)	4H-5H
Impact Resistance (ASTM D2794)	Up to 120 lbs.in (Direct) and 60 lbs.in (Rev)

**QUV Resistance (ASTM G154):** Gray chalk, 19 gloss units, 460 hrs- QUV UVA-340 Bulb  
**Chemical Resistance:** No effect on film of various chemicals on 4 hrs and 8 hrs spot tests.

# Railplex EE-2020 PC

## PRODUCT DATA SHEET



### MIXING & THINNING

<b>Mixing</b>	Agitate thoroughly each component before combining Mix (combine) 1:1 by volume Part A and Part B Agitate thoroughly again after combining Allow 20 minutes @ 75°F (23°C) of induction time to attain maximum gloss.
<b>Thinning</b>	0-5% by volume maximum, consult Carboline for recommendations If necessary reduce up to 5% after combining components
<b>Ratio</b>	1:1 Part A to Part B
<b>Pot Life</b>	6 hours @ 70°F (21°C)

### 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.

<b>Airless Spray</b>	<ul style="list-style-type: none"><li>• 45:1 Airless spray equipment</li><li>• Tip Size: 0.017 to 0.021</li><li>• Pump Pressure: 2500-3500 psi (17-24 MPa)</li></ul> <p>To minimize or eliminate thinner use in-line heated equipment with insulated hoses to reach application vis. Do not exceed 165°F (74°C).</p>
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### APPLICATION PROCEDURES

**General** | Designed to be applied direct to metal in a single or two coat application.

### 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 to Touch	Dry to Handle	Minimum Recoat Time	Maximum Recoat Time
72°F (22°C)	3 Hours	6 Hours	12 Hours	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

<b>Cleanup</b>	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.
<b>Safety</b>	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.

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**CLEANUP & SAFETY**

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**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.

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**PACKAGING, HANDLING & STORAGE**

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**Packaging** | 55 gal drums or 5 gal pails

**Shelf Life** | Generally 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** | Containers must be closed tightly. Do not store outside. Rotate stock.

**Flash Point (Setaflash)** | Part A: 30°F (-1.11°C)  
Part B: 55°F (13°C)

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**WARRANTY**

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