

SELECTION & SPECIFICATION DATA

Generic Type	A high solids two component polyurethane topcoat coating
Description	A 4:1, high solids two component polyurethane topcoat coating. This coating is designed to provide very good corrosion, UV and chemical resistance as a topcoat.
Features	Excellent Weathering resistance Very Low HAPS Low VOC Easy one coat coverage Excellent adhesion Very good resistance to corrosion and spillage /splash of mild chemical Very flexible Excellent gloss and color retention
Color	White, Black and Grey or per customer requirements
Finish	High Gloss
Dry Film Thickness	2 - 4 mils (51 - 102 microns) per coat Not to exceed 8 mils (200 µm) DFT.
Solids Content	By Volume 64% +/- 3%
Theoretical Coverage Rate	1027 ft ² /gal at 1.0 mils (25.2 m ² /l at 25 microns) 513 ft ² /gal at 2.0 mils (12.6 m ² /l at 50 microns) 257 ft ² /gal at 4.0 mils (6.3 m ² /l at 100 microns) Allow for loss in mixing and application.
VOC Values	As Supplied : Per EPA Method 24: 2.0 lbs/gal (239 g/l) These are nominal values and may vary slightly with color.

SUBSTRATES & SURFACE PREPARATION

Steel	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.

PERFORMANCE DATA

Test Method	Results
Adhesion (ASTM D3359)	5A (no peeling or removal)
Flexibility (ASTM D522)	Passes 1/8" conical mandrel
Hardness (ASTM D3363)	H
Impact Resistance (ASTM D2794)	Up to 160 lbs.in (Direct) and 160 lbs. in (Rev)
QUV Resistance (ASTM G154)	4000 hours UVA-340

Chemical Resistance: No effect on film in various chemicals on 4 hrs/8hrs spot tests
Corrosion Resistance (ASTM B117): 1500 hours salt fog over recommended primer

MIXING & THINNING

Mixing	Agitate thoroughly each component before combining. Agitate thoroughly again after combining.
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Railplex C4 LV Urethane

PRODUCT DATA SHEET



MIXING & THINNING

- Thinning** | None required, consult Carboline for recommendations
If necessary reduce up to 15% after combining components.
- Ratio** | 4:1 Part A to Part B, by volume
- Pot Life** | 3 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.

- Airless Spray** | 45:1
Tip Size: 0.013 to 0.017" (0.33-0.43 mm)
Pump Pressure: 2500-3500 psi (17-24 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 Rates** | Designed to be applied in a single or two coat application.

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 to Recoat	Dry to Handle	Minimum Recoat Time	Maximum Recoat Time
72°F (22°C)	2 Hours	6 Hours	8 Hours	5 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

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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