

SELECTION & SPECIFICATION DATA

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| Generic Type | Cross-Linked Epoxy |
| Designation | This is a product that Carboline is intending to drop from the product line. Please reach out to your Carboline Sales Representative for a product alternative. |
| Description | Highly chemical resistant epoxy mastic coating with exceptionally versatile uses in all industrial markets. Self-priming and suitable for application over most existing coatings, and tightly adherent to rust. Excellent for use as a primer or intermediate coat where low temperature cure is needed. Can be used in a variety of chemical environments. May be used as a self-priming or finish coat on exterior exposure if discoloration can be tolerated. |
| Features | <ul style="list-style-type: none"> • Excellent chemical resistance • Surface tolerant characteristics • Low-temperature cure formulation • Self-priming capability • Very good abrasion resistance • VOC compliant to current AIM regulations • Suitable for use in USDA inspected facilities |
| Color | C900 (Black), S800 (White), C703 (Grey), C705 (Light Grey), 0500 (Tile Red), 5555 (Safety Red), 0200 (Tan), 6666 (Safety Yellow), 1675 (Ignition Yellow) Other colors may be available on request. Contact your Carboline Representative for availability. |
| Finish | Gloss |
| Primer | Self-priming. May be applied over inorganic zinc primers and other tightly adhering coatings. A mist coat may be required to minimize bubbling over inorganic zinc primers. |
| Dry Film Thickness | 4 - 6 mils (102 - 152 microns) per coat Use 6-8 mils (152-203 microns) over tight rust or severe environments. Do not exceed 10 mils (250 microns) in a single coat. Excessive film thickness over inorganic zincs may increase damage during shipping or erection. |
| Solids Content | By Volume 80% +/- 2% |
| Theoretical Coverage Rate | 1283 ft ² /gal at 1.0 mils (31.5 m ² /l at 25 microns) 321 ft ² /gal at 4.0 mils (7.9 m ² /l at 100 microns) 214 ft ² /gal at 6.0 mils (5.2 m ² /l at 150 microns) Allow for loss in mixing and application. |
| VOC Values | As Supplied : 1.5 lbs/gal (180 g/l) Thinner 33 : 14 oz/gal=2.0 lbs/gal (250 g/l) Thinner 2 : 15 oz/gal=2.0lbs/gal (250 g/l) These are nominal values and may vary slightly with color. |
| Limitations | Epoxies may lose gloss, discolor and chalk when exposed to sunlight. Do not apply over latex coatings. Not recommended for immersion projects. Do not use as a finish coat if severe discoloration is objectionable. |
| Topcoats | May be coated with Acrylics, Epoxies, or Polyurethanes depending on exposure and need. |

SUBSTRATES & SURFACE PREPARATION

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| General | Surfaces must be clean and dry. Employ methods to remove dirt, dust, oil and all other contaminants that could interfere with adhesion of coating. |
| Steel | Minimum SSPC-SP6 for most applications Profile: 1.5-3.0 mils (38-75 microns), SSPC-SP2 or SP3 are suitable cleaning methods for mild environments. |
| Galvanized Steel | Prime with specific Carboline primers as recommended by your Carboline Sales Representative. |
| Concrete or CMU | The concrete must be cured for 28 days (at 75°F/50% R.H.) or until the concrete reaches its designated compressive strength. Prepare and clean the surface in accordance with SSPC-SP13/NACE No. 6 guidelines. Test for moisture by conducting a plastic sheet testing in accordance with ASTM D4263. |
| Drywall & Plaster | Joint compound and plaster should be fully cured prior to coating application. |
| Previously Painted Surfaces | Lightly sand or abrade to roughen surface and degloss the surface. Existing paint must attain a minimum 3B rating in accordance with ASTM D3359 "X-Scribe" adhesion test. |

MIXING & THINNING

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| Mixing | Power mix separately, then combine and power mix. DO NOT MIX PARTIAL KITS. |
| Thinning | Spray: Up to 13 oz/gal with Thinner 2 Brush or Roller: Up to 14 oz/gal with Thinner 33 Thinner 33 can be used for spray in hot/windy conditions. Use of thinners other than those supplied or recommended by Carboline may adversely affect product performance and void product warranty, whether expressed or implied. Mist Coating: Thin up to 32 oz/gal (263 g/l) with Thinner 2 or 33 in VOC restricted (2.8 lb/gal) areas. May thin up to 48 oz/gal where VOC restricted levels are at 3.5 lb/gal (0.42 kg/l) for mist coat only. If necessary, use Thinner 230 only in hot (above 100°F/38°C) and windy conditions, to slow down the evaporation rate. *See VOC values for thinning limits. |
| Ratio | 1:1 Ratio (A to B) |
| Pot Life | 2 Hours at 75°F (24°C) Pot life ends when coating loses body and begins to sag. Pot life times will be less at higher temperatures. |

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.

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| Spray Application (General) | This is a high solids coating and may require adjustments in spray techniques. Wet film thickness is easily and quickly achieved. |
| Conventional Spray | Pressure pot equipped with dual regulators, 3/8" I.D. minimum material hose, 0.070" I.D. fluid tip and appropriate air cap. |

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| Airless Spray | Pump Ratio: 30:1 (min.)* GPM Output: 3.0 (min.) Material Hose: 3/8" I.D. (min.) Tip Size: 0.017"-0.021" Output PSI: 2100-2300 Filter Size: 60 mesh *PTFE packings are recommended and available from the pump manufacturer. |
| Brush & Roller (General) | Multiple coats may be required to obtain desired appearance, recommended dry film thickness and adequate hiding. Avoid excessive re-brushing or rerolling. For best results, tie-in within 10 minutes at 75°F (24°C). |
| Brush | Use a medium bristle brush. |
| Roller | Use a short-nap synthetic roller cover with phenolic core. Note: WIWA is a registered trademark of the Wilhelm Wagner GmbH & Co. KG |

APPLICATION CONDITIONS

| Condition | Material | Surface | Ambient | Humidity |
|-----------|-------------|--------------|--------------|----------|
| Minimum | 40°F (4°C) | 35°F (2°C) | 35°F (2°C) | 0% |
| Maximum | 90°F (32°C) | 125°F (52°C) | 110°F (43°C) | 90% |

This product simply requires the substrate temperature to be above the dew point.

CURING SCHEDULE

| Surface Temp. | Dry to Touch | Dry to Handle | Final Cure General |
|---------------|--------------|---------------|--------------------|
| 40°F (4°C) | 8.5 Hours | 30 Hours | 7 Days |
| 50°F (10°C) | 5.5 Hours | 13 Hours | 3 Days |
| 60°F (16°C) | 4 Hours | 8 Hours | 2 Days |
| 75°F (24°C) | 3 Hours | 5 Hours | 24 Hours |
| 90°F (32°C) | 1.5 Hours | 3 Hours | 16 Hours |

Higher film thickness, insufficient ventilation or cooler temperatures will require longer cure times and could result in solvent entrapment and premature failure. Excessive humidity or condensation on the surface during curing can interfere with the cure, can cause discoloration and may result in a surface haze. Any haze or blush **must** be removed by water washing before recoating. During high humidity conditions, it is recommended that the application be done while temperatures are increasing. **Maximum recoat/topcoat times are 30 days for epoxies and 90 days for polyurethanes at 75°F (24°C).** If the maximum recoat times have been exceeded, the surface must be abraded by sweep blasting or sanding prior to the application of additional coats.

CLEANUP & SAFETY

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| Cleanup | Use Thinner #2 or Acetone. In case of spillage, absorb and dispose of in accordance with local applicable regulations. |
| Safety | Read and follow all caution statements on this product data sheet and on the SDS for this product. Wear protective clothing, gloves and use protective cream on face, hands and all exposed areas. |

Carboguard[®] 890 LT

PRODUCT DATA SHEET



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. User should test and monitor exposure levels to insure all personnel are below guidelines. |
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PACKAGING, HANDLING & STORAGE

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| Shelf Life | Part A: Min. 36 months at 75°F (24°C) Part B: Min. 15 months at 75°F (24°C) *Shelf Life: (actual stated shelf life) when kept at recommended storage conditions and in original unopened containers. |
| Storage Temperature & Humidity | 40° - 110°F (4° - 43°C) 0-100% Relative Humidity |
| Storage | Store Indoors. |
| Shipping Weight (Approximate) | 2 Gallon Kit - 29 lbs (13kg) 10 Gallon Kit - 145 lbs (66 kg) |
| Flash Point (Setaflash) | 89°F (32°C) for Part A 73°F (23°C) for Part B 85°F (29°C) for mixed |

WARRANTY

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