

SELECTION & SPECIFICATION DATA

Generic Type	Epoxy polyamide with corrosion inhibitor (zinc phosphate)
Description	Versatile corrosion resistant coating. Used either as a primer, intermediate coat, or self-priming finish over steel and zinc primers. May be topcoated with itself, or a broad variety of high performance finish coats. Product also has surface tolerant properties and low temperature 35 °F (2 °C) cure capability.
Features	<ul style="list-style-type: none"> • Ready to apply after mixing; no sweat-in time or thinning required. • Economical fit for use epoxy • Available in a variety of rapid tint colors • Attractive low sheen for tank exteriors • Used as a primer, intermediate, or finish coat • Power tool cleaned surfaces acceptable • VOC compliant to current AIM regulations
Color	C900 (Black), S800 (White), C703 (Grey), C705 (Light Grey), 0500 (Tile Red), 5555 (Safety Red), 6666 (Safety Yellow) Other colors may be available on request. Contact your Carboline Representative for availability.
Finish	Eggshell
Primer	Self-priming. May be applied over zinc rich primers. A mist coat may be required to minimize bubbling over inorganic zinc rich primers.
Dry Film Thickness	<p>3 - 5 mils (76 - 127 microns) per coat as a primer or intermediate 4 - 6 mils (102 - 152 microns) per coat as a finish coat over primer</p> <p>Two coats at 3-5 mils per coat may be used direct-to-metal. Do not exceed 10 mils (250 microns) in a single coat. Excessive film thickness over inorganic zincs may increase damage during shipping or erection.</p>
Solids Content	By Volume 63% +/- 2%
Theoretical Coverage Rate	<p>1011 ft²/gal at 1.0 mils (24.8 m²/l at 25 microns) 337 ft²/gal at 3.0 mils (8.3 m²/l at 75 microns) 168 ft²/gal at 6.0 mils (4.1 m²/l at 150 microns) Allow for loss in mixing and application.</p>
VOC Values	<p>Thinner 10 : 15 oz/gal: 3.12 lbs./gal (374 g/l) Thinner 243 E : 16 oz/gal: 2.80 lbs./gal (336 g/l) Thinner 33 : 16 oz/gal: 3.17 lbs./gal (380 g/l) Thinner 236 E : 16 oz/gal: 2.65 lbs./gal (318 g/l) As Supplied : 2.65 lbs./gal (318 g/l)</p> <p>These are nominal values and may vary slightly with color.</p>
Dry Temp. Resistance	<p>Continuous: 200°F (93°C) Non-Continuous: 250°F (121°C)</p> <p>Discoloration and loss of gloss is observed above 200°F.</p>
Limitations	Epoxies may lose gloss, discolor and chalk when exposed to sunlight. LT Cure will cause additional discoloration as it weathers and/or ages.
Topcoats	May be coated with Acrylics, Epoxies, Alkyds, or Polyurethanes depending on exposure and need.

SUBSTRATES & SURFACE PREPARATION

General	Surfaces must be clean and dry. Employ adequate methods to remove dirt, dust, oil and all other contaminants that could interfere with adhesion of the coating.
Steel	<p>For most applications: SSPC-SP6 to obtain a blast profile of 1.0-2.0 mils (25-50 microns). May also be applied over SSPC-SP3 for certain applications.</p> <p>When using under fireproofing products, defer to the primer surface preparation requirements in the product data sheet of the fireproofing product.</p>
Galvanized Steel	<p>Galvanizing requires a roughened surface for optimum adhesion/performance of high build epoxies. Remove any contaminants per SSPC-SP1. Ensure there are no chemical treatments that may interfere with adhesion. Abrade the surface to establish a suitable roughness, typically 1 mil. SSPC-SP7 or SP11 are acceptable methods.</p> <p>When using under fireproofing products, defer to the primer surface preparation requirements in the product data sheet of the fireproofing product.</p>
Concrete or CMU	Concrete shall be designed, placed, cured, and prepared per NACE No. 6/SSPC-SP 13, latest edition. Abrade to remove all laitance, loose concrete, etc. and to create surface profile in accordance with ICRI CSP 2-5.

MIXING & THINNING

Mixing	Power mix separately, then combine and power mix. DO NOT MIX PARTIAL KITS.
Thinning	<ul style="list-style-type: none">• Normally not required but may thin as follows:• Spray: Up to 15 oz/gal (12%) with Thinner 10• Brush & Roller: Up to 16 oz/gal (12%) with Thinner 33• Thinner 236E or 243E may be used as an exempt thinner in lieu of those listed above. <p>Use of thinners other than those supplied or recommended by Carboline may adversely affect product performance and void product warranty, whether expressed or implied.</p>
Ratio	1:1 Ratio (A to B)
Pot Life	4 Hours at 75 °F (24 °C) <p>Pot life ends when coating thickens and loses application properties. Pot life times will be less at higher temperatures.</p>

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.

Spray Application (General)	The following spray equipment has been found suitable and is available from manufacturers.
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	<ul style="list-style-type: none"> • Pump Ratio: 30:1 (min.)* • GPM Output: 2.5 (min.) • Material Hose: 3/8" I.D. (min.) • Tip Size: 0.017"-0.021" • Output PSI: 2100-2300 • Filter Size: 60 mesh <p>*PTFE packings are recommended and available from the pump manufacturer.</p>
Brush & Roller (General)	<p>Multiple coats may be required to obtain desired appearance, recommended dry film thickness and adequate hiding. Avoid excessive re-brushing or re-rolling. For best results, tie-in within 10 minutes at 75 °F (24 °C).</p>
Brush	Use a medium bristle brush.
Roller	Use 3/8" nap solvent resistant core roller.

APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	50°F (10°C)	35°F (2°C)	35°F (2°C)	0%
Maximum	90°F (32°C)	125°F (52°C)	110°F (43°C)	95%

This product simply requires the substrate temperature to be above the dew point. Condensation due to substrate temperatures below the dew point can cause flash rusting on prepared steel and interfere with proper adhesion to the substrate. Special application techniques may be required above or below normal application conditions.

CURING SCHEDULE

Surface Temp.	Dry to Recoat	Maximum Recoat Time
35°F (2°C)	24 Hours	120 Days
50°F (10°C)	18 Hours	120 Days
60°F (16°C)	7 Hours	90 Days
75°F (24°C)	6 Hours	90 Days
90°F (32°C)	2 Hours	90 Days

These times are based on 50% relative humidity and 4.0-6.0 mil (100-150 micron) dry film thickness for atmospheric exposures. 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. Recoat intervals may vary from those listed above when using under intumescent fireproofing products. Consult Carboline Technical Service for recommended cure times before applying Carboline intumescent products. 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. For force curing, contact Carboline Technical Service for specific requirements.

CLEANUP & SAFETY

Cleanup	Use Thinner 2 or Acetone. In case of spillage, absorb and dispose of in accordance with local applicable regulations.
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Carboguard[®] 893 SG LT

PRODUCT DATA SHEET



CLEANUP & SAFETY

Safety	Read and follow all caution statements on this product data sheet and on the SDS for this product. Employ normal workmanlike safety precautions. Use adequate ventilation. Keep container closed when not in use.
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 insure all personnel are below guidelines. If not sure or if not able to monitor levels, use MSHA/NIOSH approved respirator.
Caution	This product contains flammable solvents. Keep away from sparks and open flames. All electrical equipment and installations should be made and grounded in accordance with the National Electric Code. In areas where explosion hazards exist, workers should be required to use non-ferrous tools and wear conductive and non-sparking shoes.

PACKAGING, HANDLING & STORAGE

Shelf Life	Part A & B: Min. 36 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: 26 lbs (12 kg) 10 Gallon Kit: 127 lbs (58 kg)
Flash Point (Setaflash)	Part A: 75 °F (24 °C) Part B: 88 °F (31 °C)

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.