

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. Carboline glass flake additive may be added to improve performance including internal strength, hardness, impact, and abrasion resistance. May be topcoated with itself, or a broad variety of high performance finish coats. Product also has surface tolerant properties. Use optional (LT) cure for low temperature cure down to 35°F (1.7°C).
Features	• 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 • Optional low temperature (LT) cure Part B • VOC compliant to current AIM regulations
Color	0700 (Grey) and 0800 (White) A wide range of colors is available upon request using Carboline's Rapid Tint System (RTS). 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	3 - 6 mils (76 - 152 microns) per coat 3-5 mils (75-125 microns) can be used as a primer or intermediate coat. Two coats may be used direct-to-metal. 4-6 mils (100-150 microns) can be used as a finish coat over a primer. 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 63% +/- 2%
Theoretical Coverage Rate	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.
VOC Values	Thinner 10 : 15 oz./gal: 2.95 lbs./gal (354 g/l) Thinner 243 E : 16 oz./gal: 2.70 lbs./gal (324 g/l) Thinner 236 E : 16 oz./gal: 2.70 lbs./gal (324 g/l) Thinner 229 : 16 oz./gal: 2.97 lbs./gal (356 g/l) Thinner 33 : 16 oz./gal: 2.98 lbs./gal (357 g/l) As Supplied : 2.70 lbs./gal (324 g/l) Calculated. These are nominal values and may vary slightly with color.
Dry Temp. Resistance	Continuous: 300°F (149°C) Prolonged exposure above 200 °F (93 °C) may cause discoloration (darkening), but will not affect performance.

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Limitations	Epoxies may lose gloss, discolor and chalk when exposed to sunlight. LT Cure will cause additional discoloration as it weathers and/or ages. Not recommended for immersion service.
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	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-SP 3 for certain applications. When using under fireproofing products, defer to the primer surface preparation requirements in the product data sheet of the fireproofing product.
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.
Non-Ferrous Metals	Surface profile should be a dense angular 1.5 - 3 mils and is best achieved through abrasive blasting in accordance with SSPC-SP16 for atmospheric exposure.

MIXING & THINNING

Mixing	Power mix separately, then combine and power mix. DO NOT MIX PARTIAL KITS.
Thinning	Preferred Thinner Uses and Application: 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. Thinner 229 is used when very hot surfaces up to 140°F (60°C) are encountered. Alternate Compatible Thinners for Atmospheric Service: Carboline Thinner 2, 10, 15, 76, 225E, 229, 236E, 243E, 248 and Plasite Thinner #19 or #20 Use of thinners other than those supplied or recommended by Carboline may adversely affect product performance and void product warranty, whether expressed or implied.
Ratio	1:1 Ratio (A to B)
Pot Life	4 Hours at 75 °F (24 °C) Pot life ends when coating thickens and loses application properties. 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.

Spray Application (General) | The following spray equipment has been found suitable and is available from equipment 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.

Airless Spray | 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

*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 rebrushing or re-rolling. For best results, tie-in within 10 minutes at 75 °F (24 °C).

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)	50°F (10°C)	50°F (10°C)	0%
Maximum	90°F (32°C)	140°F (60°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. Surface and ambient temperatures may be reduced to 35 °F (2 °C) when using the (LT) cure.

CURING SCHEDULE

Surface Temp.	Dry to Touch	Dry to Handle	Dry to Recoat or Topcoat	Maximum Recoat Time
50°F (10°C)	2 Hours	12 Hours	24 Hours	1 Year
60°F (16°C)	1.5 Hours	8 Hours	10 Hours	1 Year
75°F (24°C)	1 Hour	4 Hours	7 Hours	1 Year
90°F (32°C)	30 Minutes	2 Hours	4 Hours	1 Year

These times are based on a 4.0-6.0 mil (100-150 micron) dry film thickness for non-immersion. 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.
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.

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. This product is solvent based and not affected by excursions below these published storage temperatures, down to 10 °F (-12 °C), for a duration of no more than 14 days. Always inspect the product prior to use to make sure it is smooth and homogeneous when properly mixed.
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: 75 °F (24 °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 to verify correctness before specifying or ordering. No guarantee of accuracy is given or implied. Carboline warrants our products to be free of manufacturing defects in accord with applicable Carboline quality control procedures. THIS WARRANTY IS NOT VALID WHEN THE PRODUCT IS NOT: (1) APPLIED IN ACCORDANCE WITH CARBOLINE'S SPECIFICATIONS, AND/OR (2) PROPERLY STORED, CURED, AND USED UNDER NORMAL OPERATING CONDITIONS. Carboline assumes no responsibility for coverage, performance, injuries, or damages resulting from use of the product. If this product is found not to perform as specified upon inspection by a Carboline representative during the warranty period, Carboline's sole obligation, if any, is to replace the Carboline product(s) proven to be defective or refund the purchase price thereof, at Carboline's sole option. Carboline shall not be liable for any other losses or damages. This warranty excludes (1) labor and costs of labor for the application or removal of any product, and (2) any incidental or consequential damages, whether based on breach of express or implied warranty, negligence, strict liability or any other legal theory. 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. The whole text of this Product Data Sheet, as well as the documents derived from it, have been written in English, and for legal purposes the English version shall prevail.