

SELECTION & SPECIFICATION DATA

Generic Type	Polyamido-Amine Epoxy
Description	Penetrating primer/sealer for use on concrete substrates. It is a nuclear grade, DBA tested and certified for use in Nuclear Level 1 areas in a variety of systems with appropriate finish coats.
Features	<ul style="list-style-type: none"> • Exceptional wetting characteristics • Low stress, highly flexible film • Very high solids • Low odor • User-friendly brush & roller application • VOC compliant to current AIM regulations • Suitable for use in Nuclear Service Level 1
Color	Clear Amber (0910)
Finish	Gloss
Primer	Self-priming. May be applied over most generic types of coatings.
Dry Film Thickness	<p>1 - 2 mils (25 - 51 microns) per coat</p> <p>DFT for most applications but can be applied up to 4.0 mils (100 microns) for sealing rough surfaces or shot-blasted concrete. When used as a curing and/or form release agent, it may be applied up to 10.0 mils (250 microns) wet.</p>
Solids Content	By Volume 98% +/- 2%
Theoretical Coverage Rate	<p>1572 ft²/gal at 1.0 mils (38.6 m²/l at 25 microns)</p> <p>786 ft²/gal at 2.0 mils (19.3 m²/l at 50 microns)</p> <p>Allow for loss in mixing and application.</p>
VOC Values	<p>As Supplied : 0.2 lbs/gal (24 g/l) (EPA Method 24)</p> <p>Thinner 76 : 25 oz/gal = 1.3 lbs/gal (156 g/l)</p> <p>These are nominal values.</p>
Dry Temp. Resistance	<p>Continuous: 175°F (79°C)</p> <p>Non-Continuous: 200°F (93°C)</p>
Limitations	<ul style="list-style-type: none"> • Porous and irregular substrates like concrete/fireproofing affect coverage rates and should be taken into account. • Epoxies may lose gloss, discolor and chalk when exposed to sunlight. • Do not use for immersion service.
Topcoats	May be coated with Acrylics, Epoxies, or Polyurethanes depending on exposure and need.

SUBSTRATES & SURFACE PREPARATION

General	Concrete must be cured 28 days at 75 °F (24 °C) and 50% relative humidity or equivalent. Prepare surfaces in accordance with ASTM D4258 Surface Cleaning of Concrete and ASTM D4259 Abrading Concrete. Voids in concrete may require surfacing. Application prior to surfacing assures tight adhesion between concrete and surfacers or membranes. Compatibility with other coatings, surfacers and polyurethane membranes eliminates need for form release oils or curing oils.
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Carboguard[®] 1340N

PRODUCT DATA SHEET



SUBSTRATES & SURFACE PREPARATION

- Concrete or CMU** | 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
- Previously Painted Surfaces** | Lightly sand or abrade to roughen and degloss the surface. Existing paint must attain a minimum 3B rating in accordance with ASTM D3359 "X-Scribe" adhesion test.

MIXING & THINNING

- Mixing** | Power mix separately, then combine and power mix. DO NOT MIX PARTIAL KITS.
- Thinning** | Normally not required but may be thinned up to 25 oz/gal (20%) with Thinner 76. 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** | 45 minutes at 75 °F (24 °C). Pot life 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)** | Contact Carboline Technical Service for information on spray equipment and technique.
- Brush & Roller (General)** | Avoid excessive re-brushing or rerolling. Apply only enough material to wet the surface uniformly. Any puddles formed must be brushed out.
 - Brush** | Use a medium bristle brush.
 - Roller** | Use a medium or long-nap synthetic roller cover with phenolic core.

APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	60°F (16°C)	50°F (10°C)	50°F (10°C)	0%
Maximum	90°F (32°C)	130°F (54°C)	100°F (38°C)	90%

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. Special application techniques may be required above or below normal application conditions.

CURING SCHEDULE

Surface Temp.	Dry to Handle	Final Cure	Maximum Recoat Time w/ Solvent Borne	Maximum Recoat Time w/ Water Borne
50°F (10°C)	24 Hours	9 Days	30 Days	14 Days
75°F (24°C)	12 Hours	6 Days	30 Days	14 Days
90°F (32°C)	6 Hours	3 Days	15 Days	7 Days

These times are based on a 1.0-2.0 mil (25-50 micron) dry film thickness. 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. If the maximum recoat time is exceeded, the surface must be abraded by sweep blasting or sanding before the application of additional coats.

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 and wear gloves or use protective cream on face and hands. Keep container closed when not in use.
Ventilation	When used in enclosed areas and product is thinned, 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 exotherms at the end of its pot life. Any unused quantities will become extremely hot. The material begins to thicken at the end of its pot life, which is an indication of exotherm. Immediately spread out on an appropriate surface or add sand or other suitable heat sink to the unused material to reduce the severity of exotherm. Take appropriate precautions against breathing fumes. This product when thinned 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, workmen should be required to use non-ferrous tools and wear conductive and non-sparking shoes.

PACKAGING, HANDLING & STORAGE

Shelf Life	Part A & B: 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	40-120 °F (4-49 °C) 0-90% Relative Humidity
Storage	Store Indoors
Shipping Weight (Approximate)	0.5 Gallon Kit - 6 lbs (3 kg) 2 Gallon Kit - 22 lbs (10 kg)
Flash Point (Setaflash)	Part A: >205 °F (96 °C) Part B: >205 °F (96 °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.