

PRODUCT DATA SHEET

SELECTION & SPECIFICATION DATA

Generic Type | Amine Cured Epoxy High Build

Description

Carboguard E-96 is a high solids, low VOC, quick cure, high build epoxy with excellent chemical and abrasion resistance. It is designed for use in industrial and marine. It has extremely good impact and is suitable for variety of heavy industrial applications.

· High film build and edge protection

Features

· Self priming and primer/finish capabilities

· Application by airless spray equipment (plural component acceptable but not required)

• Meets most VOC (Volatile Organic Content) regulations

Color Gray, Buff and other colors, refer to Carboline color chart

Primer | Properly prepared steel or inorganic/organic zinc rich and epoxy primers

Dry Film Thickness 1 coat system: 6-20 mils (150-500 microns)

Depending on service requirement.

Solid(s) Content | By Volume: 94% +/- 2%

Theoretical Coverage | 256 ft2/gal @ 6 mils, 6.4 m2 / I @ 150 microns

Rates | Allow for loss in mixing and application

VOC Values | As supplied: 27 g/l

This is a nominal value and may vary slightly with color.

Continuous: 93°C (199°F)

Dry Temp. Resistance Non-Continuous: 121°C (250°F)

Discoloration and loss of gloss is observed above 200°F (93°C).

Limitations | Epoxies lose gloss, discolor and eventually chalk in sunlight exposure.

SUBSTRATES & SURFACE PREPARATION

General Surfaces must be clean and dry. Remove all dirt, dust, oil and all other contaminant.

Immersion: SSPC-SP10

Steel Non-immersion: SSPC-SP6 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 StonCor ME Sales Representative.

Refer to the specific primer's Product Data Sheet for requirements.

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. Mortar joints should be cured a min of

15 days.

Drywall & Plaster | Joint compound and plaster should be fully cured prior to coating application.

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SUBSTRATES & SURFACE PREPARATION

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

MIXING & THINNING

Mixing | Power mix separately, then combine and power mix. DO NOT MIX PARTIAL KITS.

Not recommended. Thin only if necessary up to 10% of Thinner 21 and for hot and windy conditions, use Thinner 33 up to 10%.

Thinning

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 | 3:1 Ratio (A to B)

Pot Life | 60 minutes at 75°F (24°C). Pot life ends when material begins to thicken and starts to heat up. 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

Recommended for application by single or plural component airless spray. This is high solids coating and may require adjustments in spray techniques. Wet film thickness is easily and quickly achieved. The following spray equipment has been found suitable and is available from manufactures such as Binks, DeVilbiss and Graco.

Conventional Spray | N

Not recommended

Pump Ratio: 45:1 (min.) GPM Output: 3.0 (min.) Material Hose: ½" I.D. (min) Tip Size: 0.025 - 0.035"

Airless Spray

Output PSI: 2700-3000 Filter Size: 60 mesh

Teflon packings are recommended and available from the pump manufacturer. Contact StonCor ME Technical Service for plural component equipment recommendations.

Brush & Roller (General)

Not recommended for tank lining applications except when striping welds.

Brush | For touch up and limited areas only.

Roller | For touch up and limited areas only.



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APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	10°C (50°F)	10°C (50°F)	10°C (50°F)	0%
Maximum	32°C (90°F)	52°C (126°F)	43°C (109°F)	85%

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. To reduce out gassing when applying to concrete substrates, do not apply in direct sunlight or when surface temperatures are increasing. Best results are obtained when ambient and surface temperatures are decreasing or constant.

CURING SCHEDULE

Surface Temp.	Dry to Recoat	Dry to Recoat & Topcoat w/ other finishes	Final Cure General	Final Cure Immersion
10°C (50°F)	12 Hours	24 Hours	3 Days	NR
16°C (61°F)	8 Hours	16 Hours	2 Days	10 Days
24°C (75°F)	4 Hours	8 Hours	24 Hours	5 Days
32°C (90°F)	2 Hours	4 Hours	16 Hours	3 Days

These times are based on a 6 mils (150 micron) dry film thickness. Higher film thickness, insufficient ventilation or cooler temperatures will require longer cure times.

During high humidity conditions, it is recommended that the application be done while temperatures are increasing. If the maximum recoat times is exceeded, the surface must be washed with detergent and water, then abraded by sweep blasting prior to the application of additional coats.

CLEANUP & SAFETY

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Use #2 Thinner 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 MSDS for this product. Employ normal workmanlike safety precautions. Hypersensitive persons should wear protective clothing, gloves and use protective cream on face, hands and all exposed areas.

Ventilation

Vapors and/or spray mist may cause explosion. When used as a tank lining or 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. In addition to ensuring proper ventilation, appropriate respirators must be used by all application personnel.

PACKAGING, HANDLING & STORAGE

24 months at 75°F (24°C)

Shelf Life

*Shelf Life: (actual stated shelf life) when kept at recommended storage conditions and in original unopened containers.

Shipping Weight (Approximate)

19-Liter Kit: 31.1 kg

Storage Temperature & Humidity

Storage Temperature: 40° -110°F (4°-43°C) Relative Humidity: 0-100%

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PACKAGING, HANDLING & STORAGE

Flash Point (Setaflash) | Part A: >205°F (96°C) Part B: >205°F (96°C)

Storage | Store indoors

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.