

SELECTION & SPECIFICATION DATA

Generic Type	Epoxy Polyamide
Description	Carboguard 824 is a VOC compliant, two coat, epoxy polyamide system for use where marine coating regulations are restricted to a maximum VOC of 340 g/l or 2.8 lb/gal. The system is specifically formulated for use in immersion service; it is highly versatile and may also be used as an intermediate coating for a variety of industrial applications. Carboguard 824 is for use over properly prepared steel and aluminum substrates that will be subject to exposure in harsh industrial and marine environments.
Features	<ul style="list-style-type: none"> • Immersion grade epoxy • Excellent for harsh marine or industrial exposures • Qualified under MIL-DTL-24441D Type IV
Color	Black F-160 (C900)
Dry Film Thickness	3 - 4 mils (76 - 102 microns) per coat
Solids Content	By Volume 67% +/- 2%
Theoretical Coverage Rates	1080 ft ² /gal @ 1 dry mil
Theoretical Coverage Rate	1075 ft ² /gal at 1.0 mils (26.4 m ² /l at 25 microns) 358 ft ² /gal at 3.0 mils (8.8 m ² /l at 75 microns) 269 ft ² /gal at 4.0 mils (6.6 m ² /l at 100 microns) Allow for loss in mixing and application.
VOC Values	As Supplied : 2.83 lbs/gal (340 g/l)
Dry Temp. Resistance	Continuous: 200°F (93°C) Non-Continuous: 250°F (121°C)
Limitations	Epoxies may lose gloss, discolor and chalk when exposed to sunlight.

SUBSTRATES & SURFACE PREPARATION

General	All surfaces must be thoroughly cleaned to remove dirt, grease, mill scale, loose rust, chalk, and any other contaminants that can reduce adhesion via SSPC-SP1 solvent cleaning. Primer required for most substrates.
Previously Painted Surfaces	All previously painted surfaces should be cleaned thoroughly to remove surface contamination. Rinse well and allow to dry. Scrape loose, scaly, peeling paint and sand the edges smooth, remove any rust and scale from ferrous metal. If the paint is glossy, sand to dull the surface. Test for compatibility with existing coatings.
Metal	Abrasive blasting is recommended to remove rust and mill scale. Solvent clean surfaces according to SSPC-SP1, then a commercial blast to SSPC-SP6 for mild exposures. For immersion service and severe environments, solvent clean surfaces according to SSPC-SP1 first, then near-white blast to SSPC-SP10.

Carboguard 824 (F-160)

PRODUCT DATA SHEET



MIXING & THINNING

Mixing | Thoroughly stir each component separately with a power mixer. Pour component B into component A, mix well with power mixer before use. Mix 1 part by volume of Part A with 1 part by volume of Part B. No induction time necessary above 60°F. If reduction is required add appropriate solvent only after both components have been blended together completely. Do not mix more than can be applied in 4 hours @ 77°F. At temperatures below 60°F, 30 minutes induction time is recommended and should be considered when calculating pot life.

Thinning | Thin for spraying with Thinner #248 to a maximum of 12 fluid ounces per gallon. Thin only if allowed by local air quality & air pollution regulations.

Ratio | 1:1 by volume

Pot Life | 4 hours min @ 77°F

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.

Conventional Spray | Binks Model 62 Spray gun or equal, Fluid Nozzle 66, Air Nozzle 66SK, 65 to 70 psi atomizing air pressure, 30 to 40 psi fluid pressure. Reduction up to 5% by volume may be required for spray applications.

Airless Spray | Apply using: 30:1 pump
Material Hose: 3/8" x 150' max
Tip Size: .013-.017"
High Pressure Filter: 30 Mesh

Roller | Roll using a 3/8" lambs wool or synthetic cover. Keep roller wet. Roll in one direction, rewet, then cross roll.

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)	135°F (57°C)	120°F (49°C)	85%

Do not apply if material, substrate or ambient temperature is above 90°F or below 35°F. When recoating beyond 14 days additional surface preparation may be require to assure adhesion.

CURING SCHEDULE

Surface Temp.	Dry to Topcoat	Maximum Recoat
35°F (2°C)	24 Hours	7 Days
40°F (4°C)	18 Hours	7 Days
60°F (16°C)	8 Hours	7 Days
80°F (27°C)	4 Hours	7 Days

Dry time @ 77°F @ 50% relative humidity applied at 5 mils wet film. Expect longer dry times in periods of higher humidity or lower temperatures and with higher film builds. If the maximum recoat window is exceeded the film must be mechanically abraded before recoating.

CLEANUP & SAFETY

Cleanup	Clean up all tools and equipment promptly with Thinner #2. Flush out all spray tips, fluid lines and pressure pots immediately after use.
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 if hypersensitive. Keep container closed when not in use.

PACKAGING, HANDLING & STORAGE

Shelf Life	Part A: 36 months Part B: 36 months *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-Gal Kit - 26 lbs 10-Gal Kit - 127 lbs
Flash Point (Setaflash)	Part A: 96°F Part B: 96°F Mixed: 104°F

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.