product data



Selection & Specification Data

Generic Type Phenalkamine Modified Epoxy

Description Carboquard 235 is a phenalkamine modified. surface-tolerant, epoxy specially formulated for

application as a ballast-coat lining for marine and other severe service industrial environments. It can also be used for the exterior of fuel storage tanks and oil tanks. This product is also suitable for fresh and salt water immersion resistance. This high solids, high performance epoxy conforms to MIL-PRF-23236B(SH) Type IV, Class 2, Grade B and provides superior performance compared to conventional epoxy systems. It can be used at low temperatures

down to 0°F.

Features Surface tolerant properties

Excellent as a ballast tank lining

Fast and low-temperature cure

Excellent general service epoxy

Excellent maintenance primer

Available in low temp cure (LT) version

Available in a high abrasion resistant (HAR) version; (65 mg loss; Tabor Abrasion test)

Color Black; Buff; Gray; Red Oxide, Blue

Finish Semi Gloss

Primers Self priming

Topcoats Topcoat for improved weathering or chemical

resistance

Dry Film 4-8 mils (100-200 microns) dry film thickness per

Thickness coat

Solids Content By Volume:

> (235) $67\% \pm 2\%$ (235 LT) $64\% \pm 2\%$ (235 HAR) $69\% \pm 2\%$ (235 HAR-LT) 65% ± 2%

Theoretical

1026-1106 ft²/gal @ 1 dry mil

Coverage Rate Allow for loss in mixing and application.

VOC Values

235

lues	As Supplied	Thinner and Amount	VOC Thinned
235	2.34 lbs/gal	#248	2.83 lbs/gal
	(280 g/l)	@15 oz/gal	(340 g/l)
235 (LT)	2.50 lbs/gal	#248	2.83 lbs/gal
	(300 g/l)	@10 oz/gal	(340 g/l)
235 HAR	2.30 lbs/gal	#248	2.83 lbs/gal
	(276 g/l)	@16 oz/gal	(340 g/l)
HAR (LT)	2.51 lbs/gal	#248	2.81 lbs/gal
	(301 g/l)	@9 oz/gal	(337 g/l)

Substrates & Surface Preparation

General All surfaces must be thoroughly cleaned to

remove dirt, grease, mill scale, loose rust, and any other contaminants that can reduce

adhesion.

Steel Atmospheric Exposure - SSPC-SP3 power tool

cleaning or SSPC-SP12 WJ-3

Immersion Exposure - SSPC-SP10, 2-3 mil

profile

Concrete and Masonry

Atmospheric Exposure - SSPC-SP13/NACE6 Immersion Exposure - SSPC-SP13/NACE 6-

4.3.1 or 4.3.2

Special Information:

Do not apply if material, substrate or ambient temperature is below 0°F or above 120°F. Material should be 40°F for best performance. Substrates below 32°F may be frost covered. Do not apply coating to frost or ice. Exterior exposure causes color change, gloss loss and chalking, however, this does not affect protective performance properties.

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Application Equipment

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. **General Guidelines:**

Spray Application (General)

Apply using airless spray, conventional spray, brush or roller. Stripe coat crevices, welds, and sharp angles for best performance. Brush and roller application may require several coats to achieve uniform film thickness and appearance. Use a 50% overlap with each pass when spraying

to eliminate holidays and pinholes.

Conventional Spray

DeVilbiss MBC-50 gun, E fluid tip, 704 nozzle, 60-65 psi atomization pressure, 5-15 psi fluid

pressure.

Apply using a 30:1 pump able to deliver 3000 psi. Airless Spray

1/4" I.D. (min.) Hose: .015-.019 Tip Size: High Pressure Filter: 60 Mesh

Brush Natural bristle or nylon/polyester

Roller 3/8" woven/phenolic core

Mixing & Thinning

4:1 by volume (Part A to Part B) Mixing Ratio

Thoroughly mix each component separately, Mixing

then combine and mix well using mechanical

agitation.

Induction Time: Allow 15 minutes induction time at 77°F or 30 minutes at 40°F. Do not mix more than can be applied during the product's

useful pot life.

Thinning May be thinned with Thinner 248. Follow

thinning amounts as outlined under "VOC

Values".

Pot Life (235) 4 hours @ 77°F

Cleanup Safety

Cleanup all tools and equipment promptly with Cleanup

Thinner #248 or #2.

Safety Read and follow all caution statements on this

product data sheet and on the MSDS 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.

Curing Schedule

Surface Temp. & 50% RH	Dry to Touch	Dry to Handle or Recoat	Maximum Dry to Recoat for Immersion	Dry Hard
40°F (4°C)	4 hours	12 hours	30 days	14 days
75°F (24°C)	2 hours	4 hours	15 days	7 days
90°F (32°C)	1 hours	2 hours	7 days	4 days

These times are based on a 6.0 mil (150 micron) dry film thickness. Higher film thickness, insufficient ventilation, high humidity or cooler temperatures will require longer cure times.

Packaging, Handling & Storage

Shipping Weight 5 Gal Kit

(Approximate) 58-64 lbs (26-29 kg)

Flash Point (Setaflash) (235) 106°F mixed

Storage (General) Store in dry protected area.

Storage Temperature

& Humidity

40-110°F; 0-90% RH

Part A: 24 months Shelf Life (all versions)

Part B: 24 months

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



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