

Phenoline 187 UHS Finish

PRODUCT DATA SHEET

SELECTION & SPECIFICATION DATA

Generic Type | Amine Modified Epoxy

Description

Phenoline 187 UHS Finish is an ultra high solids amine modified epoxy specially formulated to line ballast, oil and fuel storage tanks as well as water tanks and pipes, containment areas and water and waste water treatment plants. It is low in both odor and VOC. It provides excellent surface wetting and adhesion properties.

- · Excellent solvent/fuel resistance
- · Excellent water resistance

Features

- · High solids, low odor, low VOC
- Airless spray
- · Conforms to MIL-PRF-23236B(SH) Type IV, Class 2, Grade B
- For Low Temperature applications 40°F (4.5°C) refer to Phenoline 187 UHS LT Finish

Color | White (0800) and Buff (0200)

Finish Gloss

Primer Normally applied over Carboguard 187 UHS Primer. May be used as a self-priming, two-coat system where specified or as a single coat system.

254 - 305 microns (10 - 12 mils) per coat

Dry Film Thickness

May also be applied in a single coat application at 18-22 mils (450-550 microns).

Solids Content | By Volume 98% +/- 2%

Theoretical Coverage Rate

38.6 m²/l at 25 microns (1572 ft²/gal at 1.0 mils) 3.9 m²/l at 250 microns (157 ft²/gal at 10.0 mils) 3.2 m²/l at 300 microns (131 ft²/gal at 12.0 mils) Allow for loss in mixing and application.

VOC Values | As Supplied : 0.16 lbs/gal (20 g/l)

Wet Temp. Resistance

Immersion temperature resistance depends upon exposure. Consult Carboline Technical Service for specific information.

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 – SSPC-SP6, 1.5-2.5 mil profile
(38-62.5 microns)
Immersion – SSPC-SP10, 2-3.5 mil profile
(50-88 microns)

Atmospheric Exposure – SSPC-SP13/NACE6

Concrete or CMU

<u>Immersion Exposure</u> – SSPC-SP13/NACE 6 - 4.3.1 or 4.3.2; Voids in concrete may require surfacing.

CMU - ASTM D 4261

Phenoline 187 UHS Finish

PRODUCT DATA SHEET



SUBSTRATES & SURFACE PREPARATION

Special Instruction

Do not apply if substrate or ambient temperature is below 50°F (10°C) or above 110°F (43°C). Exterior exposure causes color change, gloss loss and chalking, however, this does not affect protective performance properties.

PËRFORMANCE DATA

All test data was generated under laboratory conditions. Field testing results may vary.

Test Method	System	Results	
Ballast Tank Mix	1 coat 18 mils (450 μ) DFT	recommended	
Crude Oil	1 coat 18 mils (450 μ) DFT	recommended	
Diesel Fuel	1 coat 18 mils (450 μ) DFT	recommended	
Fresh Water	1 coat 18 mils (450 μ) DFT	recommended	
Hi-Aromatic Gasolines	1 coat 18 mils (450 μ) DFT	recommended	
MTBE, TAME, ETBE	1 coat 18 mils (450 μ) DFT	recommended	
Refined Petroleum Products	1 coat 18 mils (450 μ) DFT	recommended	
Sea Water	1 coat 18 mils (450 μ) DFT	recommended	

IMMERSION (room temperature) Consult Carboline Technical Service for specific recommendations for commodities not listed.

MIXING & THINNING

Mixing

Thoroughly mix each component separately and then combine. Use mechanical agitation for all mixing.

Do not mix more than can be applied during the product's useful pot life.

Thinning | Not Recommended

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

Pot Life | 45 min @ 77°F (25°C), allow 15 min sweat-in-time @ 55°F (12.8°C)

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)

Apply unthinned using airless spray, preferably plural component equipment. Use brush or roller to stripe coat all sharp angles, crevices and welds before spraying to ensure peak product performance. On steel, apply a 5-6 (125-150 microns) wet mil coat to the surface. Apply additional material to recommended film thickness using a "wet on wet" technique.

Use a 74:1 pump able to deliver 6000 psi.(413 bar)

Airless Spray

Hose: 3/8" (9.5mm) I.D. (min.) Tip Size: .019-.021" (.48-.53mm) High Pressure Filter: 30 Mesh

Brush | Natural bristle or nylon/polyester, for striping and repair only

Roller | 3/8" (9.5mm) woven with solvent resistant core, for striping and repair only.



Phenoline 187 UHS Finish

PRODUCT DATA SHEET

CURING PROGRAM

Surface Temp.	Dry to Handle	Dry to Recoat	Dry to Touch	Final Cure General	Maximum Recoat
13°C (55°F)	48 Hours	48 Hours	12 Hours	10 Days	21 Days
25°C (77°F)	16 Hours	16 Hours	5 Hours	4 Days	14 Days

Dry times at 50% R.H. expect longer dry times in periods of higher humidity or lower temperatures or when applying thicker films. Use standard cure Part B at temperatures from 55°F and higher, use low temperature activator (LT cure) at temperatures between 40°F and 77°F.

CLEANUP & SAFETY

Cleanup | Cleanup all tools and equipment promptly with Thinner #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. Keep container closed when not in use.

PACKAGING, HANDLING & STORAGE

Part A: 24 months

Part B: 24 months

Shelf Life

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

(Approximate)

Shipping Weight | 5-Gal Kit - 56 lbs (25.4 kg)

40°F - 110°F (4.5°C - 43°C) Storage Temperature & Humidity

Flash Point (Setaflash) | >200°F (93°C) mixed

Storage | Store in dry protected area.

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 quarantee 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.

July 2017 133F Page 3 of 3