

## SELECTION & SPECIFICATION DATA

<b>Generic Type</b>	Amine Modified Epoxy
<b>Description</b>	<b>Phenoline 187 UHS Finish</b> 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.
<b>Features</b>	<ul style="list-style-type: none"> <li>• Excellent solvent/fuel resistance</li> <li>• Excellent water resistance</li> <li>• High solids, low odor, low VOC</li> <li>• Airless spray</li> <li>• Conforms to MIL-PRF-23236B(SH) Type IV, Class 2, Grade B</li> <li>• For Low Temperature applications 40°F (4.5°C) refer to Phenoline 187 UHS LT Finish</li> </ul>
<b>Color</b>	White (0800) and Buff (0200)
<b>Finish</b>	Gloss
<b>Primer</b>	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.
<b>Dry Film Thickness</b>	254 - 305 microns (10 - 12 mils) per coat May also be applied in a single coat application at 18-22 mils (450-550 microns).
<b>Solids Content</b>	By Volume 98% +/- 2%
<b>Theoretical Coverage Rate</b>	38.6 m <sup>2</sup> /l at 25 microns (1572 ft <sup>2</sup> /gal at 1.0 mils) 3.9 m <sup>2</sup> /l at 250 microns (157 ft <sup>2</sup> /gal at 10.0 mils) 3.2 m <sup>2</sup> /l at 300 microns (131 ft <sup>2</sup> /gal at 12.0 mils) Allow for loss in mixing and application.
<b>VOC Values</b>	<b>As Supplied</b> : 0.16 lbs/gal (20 g/l)
<b>Wet Temp. Resistance</b>	Immersion temperature resistance depends upon exposure. Consult Carboline Technical Service for specific information.

## SUBSTRATES & SURFACE PREPARATION

<b>General</b>	All surfaces must be thoroughly cleaned to remove dirt, grease, mill scale, loose rust, and any other contaminants that can reduce adhesion.
<b>Steel</b>	<u>Atmospheric</u> – SSPC-SP6, 1.5-2.5 mil profile (38-62.5 microns) <u>Immersion</u> – SSPC-SP10, 2-3.5 mil profile (50-88 microns)
<b>Concrete or CMU</b>	<u>Atmospheric Exposure</u> – SSPC-SP13/NACE6 <u>Immersion Exposure</u> – SSPC-SP13/NACE 6 - 4.3.1 or 4.3.2; Voids in concrete may require surfacing. <u>CMU</u> - 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.

### PERFORMANCE 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.

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

## 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

**Shelf Life** | Part A: 24 months  
Part B: 24 months  
  
\*Shelf Life: (actual stated shelf life) when kept at recommended storage conditions and in original unopened containers.

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

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

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

**Storage** | Store in dry protected area.

## WARRANTY

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