

## SELECTION & SPECIFICATION DATA

<b>Generic Type</b>	Amine Modified Epoxy
<b>Description</b>	<b>Phenoline 187 UHS Primer</b> is an ultra high solids amine modified epoxy specially formulated for application under Phenoline 187 UHS Finish. It is low in both odor and VOC. It conforms to MIL-PRF-23236B(SH) Type IV, Class 2, Grade B and is recommended for industrial and marine exposures on steel and concrete. It provides excellent surface wetting and adhesion properties. It is used to line ballast, oil, and fuel storage tanks as well as water tanks and pipes, containment areas and water and waste water treatment plants.
<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>• Conforms to MIL-PRF-23236B(SH) Type IV, Class 2, Grade B</li> <li>• High flash point &gt;200°F (93°C)</li> <li>• For Low Temperature applications 40°F (4.5°C) refer to Phenoline 187 UHS LT Primer</li> </ul>
<b>Color</b>	Gold (0600)
<b>Finish</b>	Gloss (70-85)
<b>Primer</b>	Self-priming
<b>Dry Film Thickness</b>	102 - 203 microns (4 - 8 mils) per coat
<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) 9.6 m <sup>2</sup> /l at 100 microns (393 ft <sup>2</sup> /gal at 4.0 mils) 4.8 m <sup>2</sup> /l at 200 microns (196 ft <sup>2</sup> /gal at 8.0 mils) Allow for loss in mixing and application.
<b>VOC Values</b>	<b>As Supplied</b> : 0.16 lbs/gal (20 g/l)
<b>Topcoats</b>	Use Phenoline 187 UHS Finish

## 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 Exposure</u> – SSPC-SP6, 2 mil (50 micron) profile <u>Immersion Exposure</u> – SSPC-SP10, 2-3 mil (50-75 micron) profile
<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
<b>Special Instruction</b>	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

# Phenoline 187 UHS Primer

## PRODUCT DATA SHEET



### MIXING & THINNING

<b>Mixing</b>	Thoroughly mix each component separately and then combine. Use mechanical agitation for all mixing. <b>Do not mix more than can be applied during the product's useful pot life.</b> For low temperature cure version it is advisable to use plural component equipment due to the very short working time.
<b>Thinning</b>	<b>Not recommended.</b>
<b>Ratio</b>	4:1 by volume (Part A: Part B)
<b>Pot Life</b>	45 min @ 77°F (25°C), Allow 15 min sweat-in-time @ 55°F (12.8°)

### 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.

<b>Spray Application (General)</b>	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 mil (125-150 micron) wet coat to the surface. Apply additional material to recommended film thickness using a "wet on wet" technique. Use a 50% overlap with each pass when spraying to eliminate holidays and pinholes.
<b>Airless Spray</b>	Apply using a 45:1 pump able to deliver 4000 psi.(276 bar) Hose: 3/8" (9.5 mm) I.D. (min.) Tip Size: .015-.017" (.38-.43mm) High Pressure Filter: 60 Mesh
<b>Brush</b>	Natural bristle or nylon/polyester, for striping and repair only
<b>Roller</b>	3/8" (9.5 mm) woven solvent resistant core, for striping and repair only.

### CURING SCHEDULE

Surface Temp.	Dry Hard	Dry to Handle	Dry to Recoat	Dry to Touch	Maximum Recoat
13°C (55°F)	10 Days	48 Hours	48 Hours	12 Hours	21 Days
25°C (77°F)	4 Days	16 Hours	16 Hours	5 Hours	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. Cure to immersions is 10 days at 55°F (12.8°C) and 4 days at 77°F (25°C)

### CLEANUP & SAFETY

<b>Cleanup</b>	Cleanup all tools and equipment promptly Thinner #2.
<b>Safety</b>	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

<b>Shelf Life</b>	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.
<b>Shipping Weight (Approximate)</b>	5 Gal Kit - 60 lbs (27 kg)
<b>Storage Temperature &amp; Humidity</b>	40°F – 110°F (4.5°C - 43°C)
<b>Flash Point (Setaflash)</b>	>200°F (93°C) mixed
<b>Storage</b>	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 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.