

## Selection & Specification Data

**Generic Type** Modified Novolac Epoxy

**Description** Plasite 9060 LT is a high performance tank lining with curing characteristics allowing the coating to be applied and cure at temperatures as low as 35°F (2°C) while achieving unmatched chemical resistance in caustic, acid, solvent and ethanol service. The diversity of chemical resistance and unique low temperature curing allows the owner flexibility with their equipment. For industrial use only.

- Features**
- Outstanding overall chemical resistance
  - Dense, highly cross-linked film for superior barrier protection
  - Superior immersion resistance
  - Excellent abrasion resistance and toughness
  - Well-suited for hydrocarbon exposures
  - Formulated for use in a large variety of facilities including waste water, chemical and fuel storage, wet-gas pipelines, rail cars, barges and ship tanks
  - Bis A free
  - Cures down to 35°F (2°C)

**Color** Black, blue, brown, grey, red, white

**Finish** Gloss

**Dry Film Thickness** 5.0 - 6.0 mils (127 - 152 microns) per coat

Two coats are generally recommended to 10-12 mils (200-250 microns) total DFT.

**Solids Content** By Volume 76% +/- 2%

**HAPs Values** As supplied: 1.35 lbs/solid gallon

These are nominal values and may vary by color.

**Theoretical Coverage Rate**

1219 ft<sup>2</sup> at 1.0 mils (29.9 m<sup>2</sup>/l at 25 microns)  
 244 ft<sup>2</sup> at 5.0 mils (6.0 m<sup>2</sup>/l at 125 microns)  
 203 ft<sup>2</sup> at 6.0 mils (5.0 m<sup>2</sup>/l at 150 microns)

Allow for loss in mixing and application.

**VOC Values** As Supplied 1.60 lbs/gal (197 g/l)

These are nominal values and may vary slightly with color.

**Dry Temp. Resistance** Continuous: 250 °F (121 °C)  
 Non-Continuous: 300 °F (149 °C)

Discoloration and loss of gloss is observed above 200°F (93°C).

**Limitations** Linings exposed to cargos warmer than the outside steel temperature are subject to a "cold-wall" effect. The smaller the temperature differential the less negative effect on performance. Epoxies lose gloss, discolor and eventually chalk in sunlight exposure.

## Substrates & Surface Preparation

**General** Surfaces must be clean and dry. Employ adequate methods to remove dirt, dust, oil and all other contaminants that could interfere with adhesion of the coating.

**Steel** **Immersion:** SSPC-SP10 minimum  
**Profile:** 1.5-3.0 mils (38-75 microns)

## Substrates & Surface Preparation

**Concrete or CMU** Immersion: Concrete must be cured 28 days at 75°F (24°C) and 50% relative humidity or equivalent. Prepare surfaces in accordance with ASTM D4258-92 Surface Cleaning of Concrete and ASTM D4259 Abrading Concrete. Voids in concrete may require surfacing.

## Mixing & Thinning

**Mixing** Power mix separately, then combine and power mix. Use material immediately after mixing. DO NOT MIX PARTIAL KITS.

**Thinning** May be thinned up to 8 oz/gal with Thinner #2. Use of thinners other than those supplied or recommended by Carboline may adversely affect product performance and void product warranty, whether expressed or implied.

**Ratio** 4:1 Ratio (A to B)

**Pot Life** 1 Hours at 75°F (24°C) Pot life ends when coating shows dramatic changes in viscosity. Pot life times will be less at higher temperatures

## 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)** The following spray equipment has been found suitable and is available from manufacturers.

**Conventional Spray** Pressure pot equipped with dual regulators, 3/8" I.D. minimum material hose, 0.055-0.070" I.D. fluid tip and appropriate air cap.

**Airless Spray** Pump Ratio: 30:1 (min.)\*  
 GPM Output: 3.0 (min.)  
 Material Hose: 3/8" I.D. (min.)  
 Tip Size: 0.015-0.019"  
 Output PSI: 2100-2300  
 Filter Size: 60 mesh  
 \*PTFE packings are recommended and available from the pump manufacturer.

**Brush & Roller (General)** Not recommended for tank lining applications except when striping welds and touching up.

**Brush** Use a medium bristle brush.

**Roller** Use a short-nap synthetic roller cover with phenolic core.

## Application Conditions

Condition	Material	Surface	Ambient	Humidity
Minimum	60 °F (16 °C)	35 °F (2 °C)	35 °F (2 °C)	0%
Maximum	90 °F (32 °C)	110 °F (43 °C)	100 °F (38 °C)	85%

This product simply requires the substrate temperature to be above the dew point. Condensation due to substrate temperatures below the dew point can cause flash rusting on prepared steel and interfere with proper adhesion to the substrate. Special application techniques may be required above or below normal application conditions.

# Plasite<sup>®</sup> 9060 LT

## Curing Schedule

Surface Temp.*	Final Cure Immersion	Maximum Recoat Time	Minimum Recoat Time
35 °F (2 °C)	15 Days	10 Days	18 Hours
50 °F (10 °C)	10 Days	7 Days	12 Hours
60 °F (16 °C)	7 Days	5 Days	8 Hours
75 °F (24 °C)	5 Days	3 Days	6 Hours
90 °F (32 °C)	3 Days	1 Day	4 Hours

These times are based on a 5-7 mil (125-175 micron) dry film thickness and adequate ventilation for the release of solvents for proper cure. Higher film thickness, insufficient ventilation or cooler temperatures will require longer cure times and could result in solvent entrapment, delamination between coats and premature failure. Excessive humidity or condensation on the surface during curing can interfere with the cure, can cause discoloration and may result in a surface haze. Any haze or blush must be removed by water washing before recoating. If the maximum recoat time is exceeded, the surface must be abraded prior to the application of additional coats. Note: It is recommended to cure above 60°F (16°C) for aggressive service.

Surface Temp.*	Final Cure Immersion
150 °F (66 °C)	8 Hours

The above curing schedule may be used to force cure the coating system. Allow the freshly applied coating to air dry for 4 hours prior to elevating temperature. Elevate temperature no more than 30°F (15°C) every 30 minutes.

## Cleanup & Safety

- Cleanup** Use Thinner #2 or Acetone. In case of spillage, absorb and dispose of in accordance with local applicable regulations.
- Safety** Read and follow all caution statements on this product data sheet and on the MSDS for this product. Employ normal workmanlike safety precautions.
- Ventilation** When used as a tank lining or in enclosed areas, thorough air circulation must be used during and after application until the coating is cured. The ventilation system should be capable of preventing the solvent vapor concentration from reaching the lower explosion limit for the solvents used. In addition to ensuring proper ventilation, appropriate respirators must be used by all application personnel.
- Caution** This product contains flammable solvents. Keep away from sparks and open flames. All electrical equipment and installations should be made and grounded in accordance with the National Electric Code. In areas where explosion hazards exist, workers should be required to use non-ferrous tools and wear conductive and non-sparking shoes.

## Packaging, Handling & Storage

- Shelf Life** Part A & B: Min. 24 months at 75°F (24°C)  
\*Shelf Life: (actual stated shelf life) when kept at recommended storage conditions and in original unopened containers.
- Shipping Weight (Approximate)** 1 Gallon Kit  
15 lbs (7 kg)  
5 Gallon Kit  
75 lbs (32 kg)
- Storage Temperature & Humidity** 40°-110°F (4°-43°C)  
0-90% RH
- Flash Point (Setaflash)** Part A: 81°F (27°C)  
Part B: 55°F (13°C)  
Mixed: 89°F (32°C)
- Storage** Store Indoors.

## Packaging, Handling & Storage



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