**TECHNICAL DATA**

**SURFACE PREPARATION**

**STAINLESS STEEL**
- **Immersion Service:** SSPC-SP10/NACE 2 Near-White Blast Cleaning or ISO Sa 2 1/2 Very Thorough Blast Cleaning with a minimum angular anchor profile of 1.5 mils.
- **Non-Immersion Service:** SSPC-SP6/NACE 3 Commercial Blast Cleaning or ISO Sa 2 Thorough Blast Cleaning with a minimum angular anchor profile of 1.5 mils. **Note:** Commercial Blast Cleaning generally produces the best coating performance for this exposure. If conditions will not permit this, in moderate exposures Series 66 may be applied to SSPC-SP2 or SP3 Hand or Power Tool Cleaned surfaces (SSPC Rust Grade Condition C).
- Surface preparation recommendations will vary depending on substrate and exposure conditions. Consult the latest version of Tnemec Technical Bulletin 10-78 or contact your Tnemec representative or Tnemec Technical Services.

**GALVANIZED STEEL & NON-ferrous METAL**
- **CAST/DUCTILE IRON**
  - All external surfaces of ductile iron pipe and fittings shall be delivered to the application facility without asphalt or any other protective lining on the exterior surface. All oils, small deposits of asphalt paint, grease, and soluble deposits should be removed and uniformly abrasive blasted using angular abrasive in accordance with NAPF 500-03-04: External Pipe Surface condition. When viewed without magnification, the exterior surfaces shall be free of all visible dirt, dust, loose annealing oxide, rust, mold coating and other foreign matter. Any area where rust reappears before application shall be reblasted. The surface shall contain a minimum angular anchor profile of 1.5 mils (38.1 microns) (Reference NACE RP0287 or ASTM D 4417, Method C).
- **CONCRETE**
  - Allow new cast-in-place concrete to cure a minimum of 28 days at 75°F (24°C). Verify concrete dryness in accordance with ASTM F 1869 ‘Standard Test Method for Determining Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride’ (moisture vapor transmission should not exceed three pounds per 1,000 square feet in a 24 hour period), F 2170 ‘Standard Test Method for Determining Relative Humidity in Concrete using in situ Probes’ (relative humidity should not exceed 80%), or D 4263 “Standard Test Method for Indicating Moisture in Concrete by the Plastic Sheet Method” (no moisture present). Prepare concrete surfaces in accordance with NACE No. 6/SSPC-SP13 Joint Surface Preparation Standards and ICRI Technical Guidelines. Abrasive blast, shot-blast, water jet or mechanically abrade concrete surfaces to remove laitance, curing compounds, hardeners, sealers and other contaminants and to provide an ICRI-CSP 2-3 surface profile. Large cracks, voids and other surface imperfections should be filled with a recommended filler or surfacer.
- **CMU**
  - Allow mortar to cure for 28 days. Prepare in accordance with SSPC-SP13/NACE 6 to level protrusions and mortar spatter, and remove other contaminants.
- **PAINTED SURFACES**
  - Immersion Service: Scarify the Series 66 prime coat surface by abrasive-blasting with a fine abrasive before topcoating if: (a) the Series 66 prime coat has been in exterior exposure for 60 days or longer and Series 66, 604-413, L69, L69F, N69, N69F, V69, V69F, 90G-1K97, 90E-92, 90-97, H90-97, 90-98, 91-H2O, 94-H2O, 161, 394, V530, 56.0 ± 2.0% † Surface: Self-priming, Series 27WB, 201, 1254
- **RECOMMENDED DFT**
  - **Note:** A maximum recoat time may apply depending on the topcoat specified. Refer to the applicable topcoat product sheet for information on product specific maximum recoat times.

**PRODUCT PROFILE**

**SURFACER/FILLER/PATCHER**
- **Steel:** Self-priming or Series 1, 20, FC20, 37H, L69, L69F, N69, N69F, V69, V69F, 90G-1K97, 90E-92, 90-97, H90-97, 90-98, 91-H2O, 94-H2O, 161, 394, V530
- **GALVANIZED STEEL AND NON-FERROUS METAL:** Self-priming
- **Concrete:** Self-priming, Series 27WB, 201, 1254
- **CMU:** Series 130, 1254
- **Drywall:** 151-1051 for dry interior environments
- **Note:** A maximum recoat time may apply depending on the topcoat specified. Refer to the applicable topcoat product sheet for information on product specific maximum recoat times.

**COATING SYSTEM**

**PRIMERS**
- Steel: Series 215, 217, 218
- Galvanized Steel and Non-Ferrous Metal: Series 27WB, 30, 404-413, 66, L69, L69F, N69, N69F, V69, V69F, 72, 73, 104, 113, 114, 118, 161, 262, 265, 290, 291, 740, 750, 1026, 1028, 1029, 1070, 1070V, 1071, 1071V, 1072, 1072V, 1074, 1074V, 1075, 1075V, 1077, 1078, 1078V, 1094, 1095, 1096, 1224. **Note:** A maximum recoat time may apply depending on the topcoat specified. Refer to the applicable topcoat product sheet for information on product specific maximum recoat times.
- **FINISH**
  - **Satin**

**COLORS**
- **FINISH**
  - **Note:** 2.0 to 6.0 mils (50 to 150 microns) per coat.

**TECHNICAL DATA**

**VOLUME SOLIDS**
- 56.0 ± 2.0% (mixed) †
- 2.0 to 6.0 mils (50 to 150 microns) per coat.

**RECOMMENDED DFT**
- **Note:** Number of coats and thickness requirements will vary with substrate, application method and exposure. Contact your Tnemec representative.
HI-BUILD EPOXOLINE® | SERIES 66

PRODUCT DATA SHEET

CURING TIME

<table>
<thead>
<tr>
<th>Temperature</th>
<th>To Touch</th>
<th>To Handle</th>
<th>To Recoat</th>
<th>Immersion</th>
</tr>
</thead>
<tbody>
<tr>
<td>90°F (32°C)</td>
<td>1 hours</td>
<td>5-7 hours</td>
<td>6-8 hours</td>
<td>4-5 days</td>
</tr>
<tr>
<td>80°F (27°C)</td>
<td>1.5 hours</td>
<td>7-9 hours</td>
<td>8-10 hours</td>
<td>6-7 days</td>
</tr>
<tr>
<td>70°F (21°C)</td>
<td>2 hours</td>
<td>10-12 hours</td>
<td>12-14 hours</td>
<td>7-10 days</td>
</tr>
<tr>
<td>60°F (16°C)</td>
<td>3 hours</td>
<td>16-20 hours</td>
<td>20-24 hours</td>
<td>10-12 days</td>
</tr>
<tr>
<td>50°F (10°C)</td>
<td>4 hours</td>
<td>24-30 hours</td>
<td>30-56 hours</td>
<td>14-16 days</td>
</tr>
</tbody>
</table>


VOLATILE ORGANIC COMPOUNDS

Unthinned: 3.02 lbs/gallon (362 grams/litre)
Thinned 5%: 3.20 lbs/gallon (384 grams/litre)
Thinned 10%: 3.37 lbs/gallon (401 grams/litre)†

THEORETICAL COVERAGE

898 ml sq ft/gal (22.0 m²/L at 25 microns). See APPLICATION for coverage rates.†

NUMBER OF COMPONENTS

Two: Part A and Part B

PACKAGING

5 gallon (18.9L) pails and 1 gallon (3.79L) cans — Order in multiples of 2.

NET WEIGHT PER GALLON

12.50 ± 0.25 lbs (5.67 ± .11 kg) (mixed)†

STORAGE TEMPERATURE

Minimum 50°F (10°C) Maximum 135°F (57°C)

TEMPERATURE RESISTANCE

(Dry) Continuous 250°F (121°C) Intermittent 275°F (135°C)

SHELF LIFE

Part A: 82°F (28°C) Part B: 64°F (18°C)

FLASH POINT - SETA

Part A: 82°F (28°C) Part B: 64°F (18°C)

PACKAGING

5 gallon (18.9L) pails and 1 gallon (3.79L) cans — Order in multiples of 2.

HEALTH & SAFETY

Keep out of the reach of children.

Safety Data Sheet for important health and safety information prior to the use of this product.

COVERAGE RATES

<table>
<thead>
<tr>
<th></th>
<th>Dry Mils (Microns)</th>
<th>Wet Mils (Microns)</th>
<th>Sq Ft/Gal (m²/Gal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Suggested</td>
<td>4.0 (100)</td>
<td>7.0 (180)</td>
<td>225 (20.9)</td>
</tr>
<tr>
<td>Minimum</td>
<td>2.0 (50)</td>
<td>3.5 (90)</td>
<td>450 (41.8)</td>
</tr>
<tr>
<td>Maximum</td>
<td>6.0 (150)</td>
<td>10.5 (265)</td>
<td>150 (13.9)</td>
</tr>
</tbody>
</table>

Note: Roller or brush application may require two or more coats to obtain recommended film thickness. Allow for overspray and surface irregularities. Wet film thickness is rounded to the nearest 0.5 mil or 5 microns. Application of coating below minimum or above maximum recommended dry film thicknesses may adversely affect coating performance.†

MIXING

Power mix contents of each container, making sure no pigment remains on the bottom. Pour a measured amount of Part B into a clean container large enough to hold both components. Add an equal volume of Part A to Part B while under agitation. Continue agitation until the two components are thoroughly mixed. Do not use mixed material beyond pot life limits. Note: Both components should be above 50°F (10°C) prior to mixing. For application to surfaces between 50°F to 60°F (10°C to 16°C), allow mixed material to stand thirty (30) minutes and restir before using. For optimum application properties, blended components should be above 60°F (16°C). Mixing ratio is one to one by volume.

THINNING

Use No. 4 Thinner. For air spray, thin up to 10% or 3/4 pint (380 mL) per gallon. For airless spray, roller or brush, thin up to 5% or 1/4 pint (190 mL) per gallon.

POT LIFE

20 hours at 50°F (10°C) 10 hours at 77°F (25°C) 4 hours at 100°F (38°C)

APPLICATION EQUIPMENT

<table>
<thead>
<tr>
<th>Gun</th>
<th>Fluid Tip</th>
<th>Air Cap</th>
<th>Air Hose ID</th>
<th>Mat'l Hose ID</th>
<th>Atomizing Pressure</th>
<th>Pot Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>DeVilbiss JGA</td>
<td>E</td>
<td>765 or 704</td>
<td>5/16&quot; or 3/8&quot; (7.9 or 9.5 mm)</td>
<td>3/8&quot; or 1/2&quot; (9.5 or 12.7 mm)</td>
<td>50-80 psi (3.4-5.5 bar)</td>
<td>10-20 psi (0.7-1.4 bar)</td>
</tr>
</tbody>
</table>

Low temperatures or longer hoses require higher pot pressure.

Airless Spray

<table>
<thead>
<tr>
<th>Tip Orifice</th>
<th>Atomizing Pressure</th>
<th>Mat'l Hose ID</th>
<th>Manifold Filter</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.015”-0.019” (380-485 microns)</td>
<td>3000-4000 psi (207-276 bar)</td>
<td>1/4” or 3/8” (6.4 or 9.5 mm)</td>
<td>(60 mesh (250 microns))</td>
</tr>
</tbody>
</table>

Use appropriate tip/atomizing pressure for equipment, applicator technique and weather conditions.

Note: Application over inorganic zinc-rich primers: Apply a wet mist coat and allow tiny bubbles to form. When bubbles disappear in 1 to 2 minutes, apply a full wet coat at specified mil thickness.

Roller: Roller application optional when environmental restrictions do not allow spraying. Use 3/8” or 1/2” (9.5 mm to 12.7 mm) synthetic woven nap covers.

Brush: Recommended for small areas only. Use high quality natural or synthetic bristle brushes.

SURFACE TEMPERATURE

Minimum 50°F (10°C) Maximum 135°F (57°C)
The surface should be dry and at least 5°F (3°C) above the dew point. Coating will not cure below minimum surface temperature.

CLEANUP

Flush and clean all equipment immediately after use with the recommended thinner or MEK.

† Values may vary with color.
PRODUCT DATA SHEET

HI-BUILD EPOXOLINE® | SERIES 66

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