**Product Profile**

**Generic Description**
Aliphatic Acrylic Polyurethane

**Common Usage**
A coating highly resistant to abrasion, wet conditions, corrosive fumes and exterior weathering. High build quality combines with project specific primers for two-coat, labor saving systems. Fast curing options are available; see Curing Time below. Product has some applications as a direct to metal finish. Contact your Tnemec representative for more details. NOT FOR IMMERSION SERVICE.

**Colors**
Refer to Tnemec Color Guide. Note: Certain colors may require multiple coats depending on method of application and finish coat color. When feasible, the preceding coat should be in the same color family, but noticeably different.

**Finish**
Semi-gloss

**Special Qualifications**
Series 1075 meets the requirements of SSPC-36 (level 3) Paint Standard.

**Performance Criteria**
Contact your Tnemec representative for specific test results.

**Coating System**

**Primer**

- Galvanized Steel and Non-Ferrous Metal: Series 66, L69, N69, V69, 135, 1224. Note: For special galvanized surface preparation instructions, consult the latest version of Tnemec Technical Bulletin 10-78.
- Concrete: Series 66, L69, L69F, N69, N69F, 104, 161
- CMU: 54, 130. Intermediate coat required.

**Note:** Before topcoating with Series 1075, Series V530 exterior exposed for more than 24 hours must first be scarified or receive an intermediate coat of Tnemec polyamide epoxy. Reccoat windows for other primers may apply. See those data sheets for additional information.

**Surface Preparation**

**All Surfaces**
Must be clean, dry and free of oil, grease and other contaminants. See primer product data sheet for surface preparation recommendation.

**Technical Data**

**Volume Solids**
71 ± 2.0% (mixed) †

**Recommended DFT**
2.0 to 5.0 mils (50 to 125 microns) per coat. Note: Number of coats and thickness requirements will vary with substrate, application method and exposure. Contact your Tnemec representative.

**Curing Time**

<table>
<thead>
<tr>
<th>Temperature</th>
<th>To Handle</th>
<th>To Recoat</th>
<th>Resist Moisture</th>
</tr>
</thead>
<tbody>
<tr>
<td>95°F (35°C)</td>
<td>4 hours</td>
<td>5 hours</td>
<td>3 hours</td>
</tr>
<tr>
<td>75°F (24°C)</td>
<td>6 hours</td>
<td>8 hours</td>
<td>5 hours</td>
</tr>
<tr>
<td>55°F (13°C)</td>
<td>12 hours</td>
<td>16 hours</td>
<td>9 hours</td>
</tr>
<tr>
<td>55°F (2°C)</td>
<td>36 hours</td>
<td>48 hours</td>
<td>20 hours</td>
</tr>
</tbody>
</table>

Curing time varies with surface temperature, air movement, humidity and film thickness. If coating is exposed to moisture before the applicable cure parameters are met, dull, flat or spotty appearing areas may develop. Note: For faster curing and low-temperature applications, add No. 44-710 Urethane Accelerator; see separate product data sheet. Contact Tnemec Technical Services for force curing times and temperatures.

**Volatile Organic Compounds**

<table>
<thead>
<tr>
<th></th>
<th>Maximum 15% (No. 39 Thin.)</th>
<th>Max 15% (No. 42 Thin.)</th>
<th>Max 15% (No. 48 Thin.)</th>
<th>Max 15% (No. 56 Thin.)</th>
<th>Max 15% (No. 63 Thin.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unthinned</td>
<td>1.84 lbs/gal (220 g/l)</td>
<td>2.42 lbs/gal (290 g/l)</td>
<td>2.48 lbs/gal (297 g/l)</td>
<td>2.55 lbs/gal (305 g/l)</td>
<td>1.94 lbs/gal (232 g/l)</td>
</tr>
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<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Maximum 15% (No. 39 Thin.)</td>
<td>Max 15% (No. 42 Thin.)</td>
<td>Max 15% (No. 48 Thin.)</td>
<td>Max 15% (No. 56 Thin.)</td>
<td>Max 15% (No. 63 Thin.)</td>
</tr>
<tr>
<td>Unthinned</td>
<td>0.0 lbs/gal</td>
<td>0.0 lbs/gal</td>
<td>0.0 lbs/gal</td>
<td>0.0 lbs/gal</td>
<td>0.0 lbs/gal</td>
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<tr>
<td></td>
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</tr>
</tbody>
</table>

**Theoretical Coverage**
1,132 mil sq ft/gal (27.8 m²/L at 25 microns). See APPLICATION for coverage rates. †

**Number of Components**
Two: Part A and Part B

**Mixing Ratio**
By volume: Eight (Part A) to one (Part B)

**Packaging**

- 5 Gallon Kit: PART A (Partially filled) 5 gallon pail
- 1 Gallon Kit: PART B (Partially filled) 1 pint can
- 3 Gallons (11.4L): When Mixed

**Net Weight Per Gallon**
11.84 ± 0.25 lbs (5.37 ± 0.11 kg) †

**Storage Temperature**
Minimum 20°F (-7°C) Maximum 110°F (43°C)

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

**Shelf Life**
Part A: 24 months. Part B: 12 months at recommended storage temperature.

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APPLICATION

COVERAGE RATES

**Conventional Build (Spray, Brush or Roller)**

<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>2.5 (65)</td>
<td>3.5 (90)</td>
<td>486 (4.2)</td>
</tr>
<tr>
<td>Minimum</td>
<td>2.0 (50)</td>
<td>3.0 (75)</td>
<td>569 (4.9)</td>
</tr>
<tr>
<td>Maximum</td>
<td>3.0 (75)</td>
<td>4.0 (100)</td>
<td>380 (3.3)</td>
</tr>
</tbody>
</table>

**High-Build (Spray Only)**

<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>5.5 (140)</td>
<td>265 (2.6)</td>
</tr>
<tr>
<td>Minimum</td>
<td>3.0 (75)</td>
<td>4.0 (100)</td>
<td>380 (3.3)</td>
</tr>
<tr>
<td>Maximum</td>
<td>5.0 (125)</td>
<td>7.0 (180)</td>
<td>226 (2.1)</td>
</tr>
</tbody>
</table>

**Note:** Can be spray applied at 3.0 to 5.0 mils (75 to 125 microns) DFT per coat when extra protection or the elimination of a coat is desired. 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

Stir contents of the container marked Part A, making sure no pigment remains on the bottom. Add the contents of the can marked Part B to Part A under agitation. Continue agitation until the two components are thoroughly mixed. When used with 44-710 Urethane Accelerator, first blend 44-710 into Part A under agitation, continue as above. Do not use mixed material beyond pot life limits. **Caution:** Part B is moisture-sensitive and will react with atmospheric moisture. Unused material must be kept tightly closed at all times.

THINNING

For air or airless spray, thin up to 15% or 1 1/4 pints (570 mL) per gallon with No. 42 Thinner if temperatures are below 80°F (27°C), use No. 48 Thinner for temperatures above 80°F (27°C). For brush and roller, thin 15% or 1 1/4 pints (570 mL) per gallon with No. 59 or No. 65 Thinner. Where lower VOC is required for air or airless spray, brush or roller application, thin up to 15% or 1 1/4 pints (570 mL) per gallon with No. 56 Thinner. **Note:** Thinning is required for proper application. **Caution:** Do not add thinner if more than 30 minutes have elapsed after mixing. **Note:** Up to 15% per gallon of No. 63 Thinner can be used when Series 1075 is used as an intermediate coat.

POT LIFE

1 1/2 hours at 75°F (24°C) unthinned 2 hours at 75°F (24°C) thinned

APPLICATION EQUIPMENT

**Air Spray**

<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>704 or 765</td>
<td>5/16” or 3/8” (7.9 or 9.5 mm)</td>
<td>5/8” or 1/2” (9.5 or 12.7 mm)</td>
<td>75-90 psi (5.2-6.2 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 Application:** Contact Tnemec Technical Services.

**Roller:** Use 1/4” or 3/8” (6.4 mm or 9.5 mm) synthetic woven nap roller covers. Do not use long nap roller covers. Two coats are required to obtain dry film thickness above 3.0 mils (75 microns).

**Brush:** Recommended for small areas only. Use high quality natural or synthetic bristle brushes. Two coats are required to obtain recommended film thickness above 5.0 mils (75 microns).

**Surface Temperature**

Minimum 35°F (2°C) Maximum 120°F (49°C)

The surface should be dry and at least 5°F (3°C) above the dew point.

**Cleanup**

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

† Values may vary with color.

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