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. Contains a blend of ultra-violet light (UV) absorbers for enhanced color and gloss retention. Fast curing options are available; see Curing Time below. 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
Series 1074U meets the requirements of SSPC-36 (level 3) Paint Standard.

SPECIAL QUALIFICATIONS
Contact your Tnemec representative for specific test results.

COATING SYSTEM

PRIMERS
Galvanized Steel and Non-Ferrous Metal: Series 27, 66, L69, L69F, N69, N69F, V69, V69F, 135, 161
Concrete: Series 66, L69, L69F, N69, N69F, V69, V69F, 84, 104, 161
CMU: 54-660, 130. Intermediate coat required.
Note: Before topcoating with Series 1074U, Series 530 exterior exposed for more than 24 hours must first be scarified or receive an intermediate coat of Tnemec polyamide epoxy. Recoat 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
66 ± 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
Temperature To Handle To Recoat Resist Moisture
95°F (35°C) 4 hours 5 hours 3 hours
75°F (24°C) 6 hours 8 hours 5 hours
55°F (13°C) 12 hours 16 hours 9 hours
35°F (2°C) 36 hours 48 hours 20 hours
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
EPA Method 24 †
Unthinned Max 7% (No. 39 Thin.)
(No. 39 Thin.)
(No. 42 Thin.)
(No. 48 Thin.)
2.59 lbs/gal 2.83 lbs/gal 2.82 lbs/gal 2.81 lbs/gal
(310 g/l) (339 g/l) (338 g/l) (337 g/l)
HAPS
0.19 lbs/gal solids 0.19 lbs/gal solids 0.19 lbs/gal solids 0.19 lbs/gal solids

THEORETICAL COVERAGE
1,051 mil sq ft/gal (25.8 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

Gallon Kit 5 gallon pail 1/2 gallon can 3 gallons (11.35L)
1 Gallon Kit 1 gallon pail 1 pint can 1 gallon (3.79L)

NET WEIGHT PER GALLON
11.03 ± 0.25 lbs (5.00 ± 11 kg) (mixed) †

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.

FLASH POINT - SETA
Part A: 95°F (35°C)    Part B: 135°F (57°C)

CONTACT Tnemec Technical Services for force cure times and temperatures.
Paint products contain chemical ingredients which are considered hazardous. Read container label warning and Material Safety Data Sheet for important health and safety information prior to the use of this product.

Keep out of the reach of children.

**APPLICATION**

<table>
<thead>
<tr>
<th>COVERAGE RATES</th>
<th>Conventional Build (Spray, Brush or Roller)</th>
<th>High-Build (Spray Only)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Dry Mils (Microns)</td>
<td>Wet Mils (Microns)</td>
</tr>
<tr>
<td><strong>Suggested</strong></td>
<td>2.5 (65)</td>
<td>4.0 (100)</td>
</tr>
<tr>
<td><strong>Minimum</strong></td>
<td>2.0 (50)</td>
<td>3.0 (75)</td>
</tr>
<tr>
<td><strong>Maximum</strong></td>
<td>3.0 (75)</td>
<td>4.5 (115)</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 defect 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 while 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.

**THINNING**

Thinning is required for proper application. For air or airless spray, thin 6% or 7 ounces per gallon with No. 42 Thinner if temperatures are below 80°F (27°C) or use 5% or 6 ounces of No. 48 Thinner for temperatures above 80°F (27°C). For brush and roller, thin 7% or 8 ounces per gallon with No. 39 Thinner. When using 1074U, maximum thinning is 7% for No. 39 Thinner, 6% for No. 42 Thinner, and 5% for No. 48 Thinner. Caution: Do not add thinner if more than 30 minutes have elapsed after mixing.

**POT LIFE**

1 1/2 hours at 77°F (25°C) unthinned 2 hours at 77°F (25°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&quot; or 3/8&quot;</td>
<td>3/8&quot; or 1/2&quot; (7.9 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**

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

**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 3.0 mils (75 microns).

**Surface Temperature**

Minimum 55°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.

**WARRANTY & LIMITATION OF SELLER'S LIABILITY:** Tnemec Company, Inc. warrants only that its coatings represented herein meet the formulation standards of Tnemec Company, Inc. THE WARRANTY DESCRIBED IN THE ABOVE PARAGRAPH SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. The Warranty described in the above paragraph shall be in lieu of any other warranty, expressed or implied, including but not limited to, any implied warranty of merchantability or fitness for a particular purpose. There are no warranties that extend beyond the description on the face hereof. The buyer's sole and exclusive remedy against Tnemec Company, Inc. shall be for replacement of the product in the event a defective condition of the product should be found to exist and the exclusive remedy shall not have failed its essential purpose as long as Tnemec is willing to provide comparable replacement product to the buyer. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER. Technical and application information herein is provided for the purpose of establishing a general profile of the coating and proper coating application procedures. Test performance results were obtained in a controlled environment and Tnemec Company makes no claim that these tests or any other tests, accurately represent all environments. As application, environmental and design factors can vary significantly, due care should be exercised in the selection and use of the coating.