ENDURA-SHIELD® II SERIES 1075U

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 ultraviolet (UV) light
absorbers for enhanced color and gloss retention. 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 1075U meets the requirements of SSPC-36 (level 3) Paint Standard.

CONTACT INFORMATION
Contact your Tnemec representative for specific test results.

COATING SYSTEM

PRIMERS
N140F, V140, V140F, 141, 161, 394, 530

Galvanized Steel and Non-Ferrous Metal: Series 27, 66, L69, L69F, N69, N69F, 135, 161

Concrete: Series 66, 69, L69F, N69F, 84, 104, 161

CMU: 54-660, 130 Intermediate coat required.

Note: Before topcoating with Series 1075U, 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
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>35°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
options, 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 †

HAPS

<table>
<thead>
<tr>
<th>Unthinned</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>
</tr>
</thead>
<tbody>
<tr>
<td>2.16 lbs/gal (258 g/l)</td>
<td>2.70 lbs/gal (325 g/l)</td>
<td>2.75 lbs/gal (330 g/l)</td>
<td>2.83 lbs/gal (339 g/l)</td>
<td>2.27 lbs/gal (271 g/l)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Unthinned</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>
</tr>
</thead>
<tbody>
<tr>
<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>
</tr>
</tbody>
</table>

TEORETICAL 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

By volume: Eight (Part A) to one (Part B)

MIXING RATIO

PACKAGING

<table>
<thead>
<tr>
<th>3 Gallon Kit</th>
<th>5 gallon pail</th>
<th>1/2 gallon pail</th>
<th>3 gallons (11.4L)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Gallon Kit</td>
<td>1 gallon pail</td>
<td>1 pint can</td>
<td>1 gallon (3.79L)</td>
</tr>
</tbody>
</table>

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.

FLASH POINT - SETA
Part A: 95°F (35°C)   Part B: 155°F (67°C)

Published technical data and instructions are subject to change without notice. The online catalog at www.tnemec.com
should be referenced for the most current technical data and instructions or you may contact your Tnemec representative
for current technical data and instructions.

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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

**HEALTH & SAFETY**

**APPLICATION**

**COVERAGE RATES**

<table>
<thead>
<tr>
<th>Method</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>Suggested</td>
<td>2.5 (65)</td>
<td>5.5 (90)</td>
</tr>
<tr>
<td>Minimum</td>
<td>2.0 (50)</td>
<td>3.0 (75)</td>
</tr>
<tr>
<td>Maximum</td>
<td>3.0 (75)</td>
<td>4.0 (100)</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 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. **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. 39. 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. **Note:** Thinning is required for proper application. **Caution:** Do not add thinner if more than 30 minutes have elapsed after mixing.

**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>Tip Orifice</th>
<th>Atomizing Pressure</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>700 or 705</td>
<td>5/16&quot; or 3/8&quot;</td>
<td>3/8&quot; or 1/2&quot;</td>
<td>75-90 psi</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(7.9 or 9.5 mm)</td>
<td>(9.5 or 12.7 mm)</td>
<td>(5.2-6.2 bar)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>10-20 psi</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(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>0.005-0.015&quot; (250-550 microns)</td>
<td>3000-3500 psi (207-241 bar)</td>
<td>1/4&quot; or 3/8&quot; (6.4 or 9.5 mm)</td>
<td>100 mesh (150 microns)</td>
</tr>
</tbody>
</table>

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 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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