



## 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. For additional protection from ultra-violet light, Series 1075U is available. NOT FOR IMMERSION SERVICE.
COLORS	Refer to Tnemec Color Guide. <b>Note:</b> 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 Paint Standard.
PERFORMANCE CRITERIA	Contact your Tnemec representative for specific test results.

## COATING SYSTEM

PRIMERS	<p><b>Steel:</b> Series 1, 20, FC20, 27, 66, L69, L69F, N69, N69F, 90-97, 91-H<sub>2</sub>O, 94-H<sub>2</sub>O, 104, 135, L140, L140F, N140, N140F, 141, 161, 394, 530</p> <p><b>Galvanized Steel and Non-Ferrous Metal:</b> Series 27, 66, L69, L69F, N69, N69F, 135, 161</p> <p><b>Concrete:</b> Series 66, L69, L69F, N69, N69F, 84, 104, 161</p> <p><b>CMU:</b> 54-660, 130. Intermediate coat required.</p> <p><b>Note:</b> Before topcoating with Series 1075, 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.</p>
TOPCOATS	Series 76, optional when extended weatherability is desired.

## 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.
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## TECHNICAL DATA

VOLUME SOLIDS*	71 ± 2.0% (mixed)
RECOMMENDED DFT	2.0 to 5.0 mils (50 to 125 microns) per coat. <b>Note: Number of coats and thickness requirements will vary with substrate, application method and exposure. Contact your Tnemec representative.</b>

### 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) 1075	<b>Unthinned</b>	<b>Max. 15% (No. 39 Thin.)</b>	<b>Max. 15% (No. 42 Thin.)</b>	<b>Max. 15% (No. 48 Thin.)</b>	<b>Max. 15% (No. 56 Thin.)</b>	<b>Max 15% (No. 63 Thin.)</b>												
	1.84 lbs/gal (220 g/l)	2.42 lbs/gal (290 g/l)	2.48 lbs/gal (297 g/l)	2.55 lbs/gal (305 g/l)	1.94 lbs/gal (232 g/l)	2.54 lbs/gal (305 g/l)												
HAPS 1075U	0.0 lbs/gal solids	0.0 lbs/gal solids	0.0 lbs/gal solids	0.0 lbs/gal solids	0.0 lbs/gal solids	0.08 lbs/gal solids												
HAPS	2.16 lbs/gallon (258 grams/litre)	2.70 lbs/gallon (323 grams/litre)	2.75 lbs/gallon (330 grams/litre)	2.83 lbs/gallon (339 grams/litre)	2.27 lbs/gallon (271 grams/litre)													
THEORETICAL COVERAGE*	1,132 mil sq ft/gal (27.8 m <sup>2</sup> /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	<table border="1"> <thead> <tr> <th></th> <th>PART A (Partially filled)</th> <th>PART B (Partially filled)</th> <th>When Mixed</th> </tr> </thead> <tbody> <tr> <td>3 Gallon Kit</td> <td>5 gallon pail</td> <td>½ gallon can</td> <td>3 gallons (11.4L)</td> </tr> <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>							PART A (Partially filled)	PART B (Partially filled)	When Mixed	3 Gallon Kit	5 gallon pail	½ gallon can	3 gallons (11.4L)	1 Gallon Kit	1 gallon pail	1 pint can	1 gallon (3.79L)
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3 Gallon Kit	5 gallon pail	½ gallon can	3 gallons (11.4L)															
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NET WEIGHT PER GALLON*	11.84 ± 0.25 lbs (5.37 ± .11 kg)
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## TECHNICAL DATA continued

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	12 months at recommended storage temperature.	
FLASH POINT - SETA	Part A: 95°F (35°C)	Part B: 135°F (57°C)
HEALTH & SAFETY	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. <b>Keep out of the reach of children.</b>	

## APPLICATION

## COVERAGE RATES\*

## Conventional Build (Spray, Brush or Roller)

## High-Build (Spray Only)

	Dry Mils (Microns)	Wet Mils (Microns)	Sq Ft/Gal (m <sup>2</sup> /Gal)	Dry Mils (Microns)	Wet Mils (Microns)	Sq Ft/Gal (m <sup>2</sup> /Gal)
Suggested	2.5 (65)	3.5 (90)	456 (42.3)	4.0 (100)	5.5 (140)	285 (26.5)
Minimum	2.0 (50)	3.0 (75)	569 (52.9)	3.0 (75)	4.0 (100)	380 (35.3)
Maximum	3.0 (75)	4.0 (100)	380 (35.3)	5.0 (125)	7.0 (180)	228 (21.2)

**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.

## POT LIFE

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

## THINNING

For air or airless spray, thin up to 15% or 1¼ 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 1¼ pints (570 mL) per gallon with No. 39 or No. 63 Thinner. Where lower VOC is required for air or airless spray, brush or roller application, thin up to 15% or 1¼ 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.

## SURFACE TEMPERATURE

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

## APPLICATION EQUIPMENT

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

## Air Spray

Gun	Fluid Tip	Air Cap	Air Hose ID	Mat'l Hose ID	Atomizing Pressure	Pot Pressure
DeVilbiss JGA	E	704 or 765	5/16" or 3/8" (7.9 or 9.5 mm)	3/8" or 1/2" (9.5 or 12.7 mm)	75-90 psi (5.2-6.2 bar)	10-20 psi (0.7-1.4 bar)

Low temperatures or longer hoses require higher pot pressure.

## Airless Spray

Tip Orifice	Atomizing Pressure	Mat'l Hose ID	Manifold Filter
0.009"-0.013" (230-330 microns)	3000-3500 psi (207-241 bar)	1/4" or 3/8" (6.4 or 9.5 mm)	100 mesh (150 microns)

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).

## CLEANUP

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

\*Values may vary with color.

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