



PRODUCT PROFILE

**GENERIC DESCRIPTION** Advanced Thermoset Solution Fluoropolymer

**COMMON USAGE** A high-solids fluoropolymer coating that provides an ultra-durable finish with user friendly brush, roll and conventional spray application. It has outstanding color and gloss retention even in the most severe exposures. Under certain conditions, it may be used to restore aged fluoropolymer coil applied coatings or for OEM applications. Contact Tnemec Technical Services or your local Tnemec representative for details.

**COLORS** Refer to Tnemec Color Guide. **Note:** Certain colors may require multiple coats depending on method of application and finish coat color. The preceding coat should be in the same color family, but noticeably different. Upon selection of the finish coat color (Series 1070), the intermediate coat color will be selected by Tnemec's color lab.

**FINISH** Gloss

**SPECIAL QUALIFICATIONS** Series 1070 meets the exterior weathering requirements of AAMA 2604-98.

**PERFORMANCE CRITERIA** Contact your Tnemec representative for specific test results.

COATING SYSTEM

**PRIMERS** Series 1, 27, 66, L69, L69F, N69, N69F, V69, V69F, 90-97, H90-97, 91-H<sub>2</sub>O, 94-H<sub>2</sub>O, 135, 161, 394. **Note:** Series 1 and 394 require an intermediate coat prior to topcoating with Series 1070.

**INTERMEDIATE** Series 73, 750, 1075, 1075U (Intermediate coat may be required for some applications, please contact Tnemec.) **Note:** When topcoating with Series 1070, the following maximum recoat times apply: Over 27, 66, L69, L69F, N69, N69F, V69, V69F, 135 or 161, 14 days; over itself, 30 days; over 750, 45 days; over 73, 90-97, H90-97, 91-H<sub>2</sub>O, 94-H<sub>2</sub>O, 1075 and 1075U, 90 days.

SURFACE PREPARATION

**EXTERIOR EXPOSURE** See primer product data sheet for surface preparation recommendation.

**ALL SURFACES** Must be clean, dry and free of oil, grease and other contaminants.

TECHNICAL DATA

**VOLUME SOLIDS** 60.0 ± 2.0% (mixed) †

**RECOMMENDED DFT** 2.0 to 3.0 mils (50 to 75 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 Touch   | To Handle   | Minimum Recoat ‡ |
|-------------|------------|-------------|------------------|
| 90°F (32°C) | 10 minutes | 4 hours     | 5-8 hours        |
| 70°F (21°C) | 30 minutes | 6-8 hours   | 10-12 hours      |
| 50°F (10°C) | 1 hour     | 12-15 hours | 16-24 hours      |

‡ Maximum recoat: 30 days. Curing time varies with surface temperature, air movement, humidity and film thickness. **Note:** For faster curing and low-temperature applications, add No. 44-710 Urethane Accelerator; see separate product data sheet.

**VOLATILE ORGANIC COMPOUNDS** **Unthinned:** 2.93 lbs/gallon (351 grams/litre)  
**Thinned 5% (No. 63 Thinner):** 3.10 lbs/gallon (371 grams/litre) †

**HAPS** **Unthinned:** 4.1 lbs/gal solids

**THEORETICAL COVERAGE** 962 mil sq ft/gal (23.6 m<sup>2</sup>/L at 25 microns). †

**NUMBER OF COMPONENTS** Two: Part A and Part B

**MIXING RATIO** By volume: Five (Part A) to one (Part B)

**PACKAGING**

|            | PART A                         | PART B                       | Yield (mixed)      |
|------------|--------------------------------|------------------------------|--------------------|
| Medium Kit | 5 gallon pail partially filled | 1/2 gallon pail              | 3 gallons (11.35L) |
| Small Kit  | 1 gallon can partially filled  | 1 quart can partially filled | 1 gallon (3.79L)   |

**NET WEIGHT PER GALLON** 11.49 ± 0.25 lbs (5.21 ± .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** 12 months at recommended storage temperature.

**FLASH POINT - SETA** Part A: 81°F (27°C) Part B: 130°F (54°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. **Keep out of the reach of children.**

# FLUORONAR® | SERIES 1070

**APPLICATION**

**COVERAGE RATES**

|           | Dry Mils (Microns) | Wet Mils (Microns) | Sq Ft/Gal (m <sup>2</sup> /Gal) |
|-----------|--------------------|--------------------|---------------------------------|
| Suggested | 2.5 (65)           | 4.0 (100)          | 385 (35.8)                      |
| Minimum   | 2.0 (50)           | 3.5 (90)           | 481 (44.7)                      |
| Maximum   | 3.0 (75)           | 5.0 (125)          | 321 (29.8)                      |

Allow for overspray and surface irregularities. 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. Do not use mixed material beyond pot life limits. **Caution: Part B is moisture-sensitive and will react with atmospheric moisture. Keep unused material tightly closed at all times.**

**THINNING**

For air spray, thin up to 5% or 1/4 pint (190 mL) per gallon with No. 63 Thinner. For roller, thin 5% to 8% per gallon with No. 63 Thinner. Thinning is required for proper application. **Caution: Do not add thinner if more than thirty (30) minutes have elapsed after mixing.**

**POT LIFE**

5 hours at 50°F (10°C) 2 hours at 70°F (21°C) 1 hour at 90°F (32°C)

**APPLICATION EQUIPMENT**

**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"<br>(7.9 or 9.5 mm) | 3/8" or 1/2"<br>(9.5 or 12.7 mm) | 75-90 psi<br>(5.2-6.2 bar) | 10-20 psi<br>(0.7-1.4 bar) |

Low temperatures or longer hoses require higher pot pressure. 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 cover. Do not use medium or long nap roller covers.  
**Brush:** Use high quality natural or synthetic bristle brushes.  
 Contact Tnemec Company for information on electrostatic application.

**SURFACE TEMPERATURE**

Minimum 40°F (4°C) Maximum 120°F (40°C)  
 The surface should be dry and at least 5°F (3°C) above the dew point.  
 Cure time necessary to resist direct contact with moisture at surface temperature:

|                       |                           |                          |
|-----------------------|---------------------------|--------------------------|
| 40°F (4°C): 44 hours  | 50°F (10°C): 21 1/2 hours | 60°F (16°C): 11 hours    |
| 70°F (21°C): 7 hours  | 80°F (27°C): 5 hours      | 90°F (32°C): 3 1/2 hours |
| 100°F (38°C): 2 hours |                           |                          |

If the coating is exposed to moisture before the preceding cure parameters are met, dull, flat or spotty-appearing areas may develop. Actual times will vary with air movement, film thickness and humidity.

**CLEANUP**

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

† Values may vary with color.

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