



PRODUCT PROFILE

**GENERIC DESCRIPTION** Advanced Thermoset Solution Fluoropolymer

**COMMON USAGE** A low VOC exterior finish coat especially designed for tanks and other exposed steel substrates. This product has outstanding resistance to ultra-violet light degradation providing unprecedented long-term gloss and color retention with excellent resistance to abrasion and chalking. It is aesthetically pleasing and recommended for coastal environments and on structures where extremely long-term maintenance cycles are desired. 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. The preceding coat should be in the same color family, but noticeably different. Upon selection of the finish coat color, the intermediate coat color may be selected by Tnemec Company.

**FINISH** Semi-Gloss

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

COATING SYSTEM

**PRIMERS** Series 1, 20, FC20, 27, 27WB, 66, L69, L69F, N69, N69F, V69, V69F, 90-97, H90-97, 91-H<sub>2</sub>O, 94-H<sub>2</sub>O, 118, 135, L140, L140F, N140, N140F, V140, V140F, 161, 1224. **Note:** Series 1 requires an intermediate coat prior to topcoating with Series V701. **Note:** Series 118 is typically used to overcoat, sound, existing coating systems. See product data sheet for more information.

**INTERMEDIATE** Series 73, 750, 1075, 1075U, 1095

**Note:** When topcoating with Series V701, the following maximum recoat times apply: Over 20, FC20, 27, 66, L69, L69F, N69, N69F, V69, V69F, 135, L140, L140F, N140, N140F, V140, V140F, 161, 14 days; over itself, 30 days; over 750, 1075, 1075U, 1095, 45 days; over 1, 60 days; over 27WB, 73, 90-97, H90-97, 91-H<sub>2</sub>O, 94-H<sub>2</sub>O, 1224, 90 days.

SURFACE PREPARATION

**EXTERIOR EXPOSURE** SSPC-SP6 Commercial Blast Cleaning

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

TECHNICAL DATA

**VOLUME SOLIDS** 61.0 ± 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) | 30 minutes | 4-6 hours   | 6-8 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:** 1.05 lbs/gallon (125 grams/litre)  
**Unthinned:** 0.51 lbs/gallon (61 grams/litre) (TBAC Exempt)  
**Thinned 10% (No. 65 Thinner):** 1.05 lbs/gallon (125 grams/litre)  
**Thinned 10% (No. 65 Thinner):** 0.51 lbs/gallon (61 grams/litre) (TBAC Exempt)  
**Thinned 10% (No. 63 Thinner):** 1.71 lbs/gallon (205 grams/litre)  
**Thinned 10% (No. 63 Thinner):** 1.29 lbs/gallon (154 grams/litre) (TBAC Exempt) †

HAPS

**Unthinned:** 0.01 lbs/gal solids  
**Thinned 10% (No. 65 Thinner):** 0.01 lbs/gal solids  
**Thinned 10% (No. 63 Thinner):** 0.07 lbs/gal solids †

THEORETICAL COVERAGE

878 mil sq ft/gal (24.0 m<sup>2</sup>/L at 25 microns) †

NUMBER OF COMPONENTS

Two: Part A and Part B

MIXING RATIO

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

PACKAGING

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

NET WEIGHT PER GALLON

13.31 ± 0.25 lbs (6.03 ± .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: 86°F (28°C) Part B: >200°F (93°C)

# HYDROFLON® | SERIES V701

**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.**

**APPLICATION**

**COVERAGE RATES**

|           | Dry Mils (Microns) | Wet Mils (Microns) | Sq Ft/Gal (m <sup>2</sup> /Gal) |
|-----------|--------------------|--------------------|---------------------------------|
| Suggested | 2.5 (65)           | 4.0 (101)          | 385 (35.8)                      |
| Minimum   | 2.0 (50)           | 3.5 (90)           | 481 (44.7)                      |
| Maximum   | 3.0 (75)           | 5.0 (127)          | 321 (29.8)                      |

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. 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 10% per gallon with No. 63 Thinner. For brush and roller applications, thin 10% per gallon with No. 65 Thinner. Thinning is required for proper application. **Note:** In areas that require lower VOC, use No. 65 Thinner. **Caution: Do not add thinner if more than thirty (30) minutes have elapsed after mixing.**

**POT LIFE**

2 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         | 765 or 704 | 5/16" or 3/8"<br>(7.9 or 9.5 mm) | 3/8" or 1/2"<br>(9.5 or 12.7 mm) | 70-90 psi<br>(4.9-6.2 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" (6.4 mm) synthetic woven nap cover. Do not use medium or long nap roller covers. **Brush:** Recommended for small areas only. Use high quality natural or synthetic bristle brushes.

**SURFACE TEMPERATURE**

Minimum 40°F (4°C)    Maximum 120°F (49°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:

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