



PRODUCT PROFILE

GENERIC DESCRIPTION Advanced Thermoset Solution Fluoropolymer

COMMON USAGE An exterior finish coat especially designed for tanks and other exposed steel substrates. HydroFlon 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 (Series 700), the intermediate coat will be selected by Tnemec's color lab.

FINISH Gloss

SPECIAL QUALIFICATIONS Series 700 meets the weathering requirements of AWWA Outside Coating System No. 4 (OCS-4) in accordance with AAMA 2604.

PERFORMANCE CRITERIA Contact your Tnemec representative for specific test results.

COATING SYSTEM

PRIMERS Series 1, 20, FC20, 27, 66, L69, L69F, N69, N69F, V69, V69F, 90-97, H90-97, 91-H₂O, 94-H₂O, 135, L140, L140F, N140, N140F, V140, V140F, 161, 394

INTERMEDIATE Series 73, 750, 1075, 1075U
Note: When topcoating with Series 700, the following maximum recoat times apply: Over itself, 30 days; over 73, 750, 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 m²/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 11.48 ± 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.

HYDROFLON® | SERIES 700

APPLICATION

COVERAGE RATES

	Dry Mils (Microns)	Wet Mils (Microns)	Sq Ft/Gal (m ² /Gal)
Suggested	2.5 (65)	4.0 (100)	385 (35.8)
Minimum	2.0 (50)	3.0 (75)	481 (44.7)
Maximum	3.0 (75)	5.0 (125)	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 5% or 1/4 pint (190 mL) per gallon with No. 63 Thinner. For roller, thin 3% to 5% or 1/4 pint (190 mL) 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	765 or 704	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. 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: 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:

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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