



# HYDROPLATE™ SERIES 35

## PRODUCT PROFILE

<b>GENERIC DESCRIPTION</b>	Self-crosslinking Hydrophobic Acrylic
<b>COMMON USAGE</b>	A one component, self-crosslinking finish coat formulated for use on structural steel, tanks, towers, pipes and similar structures. Formulated to resist mildew growth on the paint film. <b>Note:</b> HydroPlate's "dry-fall" characteristics help reduce the risk of overspray on buildings and surrounding property. Application methods include "dry-fall" under certain conditions (see Application).
<b>COLORS</b>	Refer to Tnemec Color Guide.
<b>FINISH</b>	Semi-Gloss
<b>PERFORMANCE CRITERIA</b>	Extensive test data available. Contact your Tnemec representative for specific test results.

## COATING SYSTEM

**INTERMEDIATE** Series 115

## SURFACE PREPARATION

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

## TECHNICAL DATA

**VOLUME SOLIDS** 43.0 ± 2.0% †  
**RECOMMENDED DFT** 2.0 to 4.0 mils (50 to 100 microns) per coat.  
**CURING TIME**

Temperature	To Handle	To Recoat
75°F (24°C)	3 hours	4 hours

Curing time varies with surface temperature, air movement, humidity and film thickness.

<b>VOLATILE ORGANIC COMPOUNDS</b>	<b>Unthinned:</b> 1.24 lbs/gallon (148 grams/litre) <b>Thinned 10%:</b> 1.24 lbs/gallon (148 grams/litre) †
<b>HAPS</b>	<b>Unthinned:</b> 1.20 lbs/gal solids <b>Thinned 10%:</b> 1.20 lbs/gal solids
<b>THEORETICAL COVERAGE</b>	690 mil sq ft/gal (16.9 m <sup>2</sup> /L at 25 microns). See APPLICATION for coverage rates. †
<b>NUMBER OF COMPONENTS</b>	One
<b>PACKAGING</b>	5 gallon (18.9L) pails and 1 gallon (3.79L) cans
<b>NET WEIGHT PER GALLON</b>	10.46 ± 0.25 lbs (4.7 ± .11 kg) †
<b>STORAGE TEMPERATURE</b>	Minimum 35°F (2°C) Maximum 110°F (43°C)
<b>TEMPERATURE RESISTANCE</b>	(Dry) Continuous 170°F (77°C) Intermittent 200°F (93°C)
<b>SHELF LIFE</b>	12 months at recommended storage temperature.
<b>FLASH POINT - SETA</b>	Non-flammable
<b>HEALTH &amp; SAFETY</b>	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	Dry Mils (Microns)	Wet Mils (Microns)	Sq Ft/Gal (m <sup>2</sup> /Gal)
Suggested	3.0 (75)	7.0 (180)	230 (21.4)
Minimum	2.0 (50)	4.5 (115)	345 (32.0)
Maximum	4.0 (100)	9.5 (240)	172 (16.0)

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** Mix by stirring to uniform consistency without creating air bubbles and foam. Do not box or use a paint shaker. Stir thoroughly, making sure no pigment remains on the bottom of the can.

**THINNING** Thinning is not normally required but when needed, thin up to 10% or 3/4 pint (380 mL) per gallon with clean tap water. Thinning may affect dryfall, recoat and curing. Contact your Tnemec representative for additional information.

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**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 54	5/16" or 3/8" (7.9 or 9.5 mm)	3/8" or 1/2" (9.5 or 12.7 mm)	50-70 psi (3.4-4.8 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
0.013"-0.017" (330-430 microns) Reversible Tip	1800-2400 psi (124-165 bar)	1/4" or 3/8" (6.4 or 9.5 mm)	60 mesh (250 microns)

Use appropriate tip/atomizing pressure for equipment, applicator technique and weather conditions.

**Note:** On projects involving spray equipment being used over consecutive days, follow Cleanup instructions below and then leave xylol in the system overnight, flushing thoroughly with clean water before each start-up.

**Roller:** Application not recommended.

**Brush:** Recommended for small areas only. Use only synthetic or nylon bristle brushes.

**SURFACE TEMPERATURE**

Minimum 45°F (7°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: 45°F (7°C): 24 to 40 hours, 75°F (24°C): 2 to 3 hours.** If the coating is exposed to moisture, proper film development may be affected. Actual times will vary with air movement, film thickness and humidity.

**CLEANUP**

Flush and clean all equipment immediately after use with clean tap water. Finish by flushing all spray equipment with isopropyl alcohol. Wash brushes in water to remove paint build-up during and after application.

**CAUTION**

Dry overspray can be wiped or washed from most surfaces. Satisfactory dry-fall performance depends upon height of work and equipment adjustment. Low temperature and high humidity are of particular concern. Test for each application as follows: Spray from 15 to 25 feet towards paint container. The material then should readily wipe off. **Note:** Heat can fuse-dry overspray to surfaces. Always clean dry overspray from hot surfaces before fusing occurs. Be aware that surface temperatures can be higher than air temperature.

† Values may vary with color.

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