



HPC/Industrial Maintenance

DURETHANE® DTM Urethane Mastic

GENERAL DESCRIPTION

DURETHANE® DTM is a surface tolerant, high solids, high build, two component acrylic urethane formulated for direct-to-metal applications. This product is compliant for applications in areas with VOC requirements of less than 250 g/L (2.08 lbs./gal.).

RECOMMENDED USES

- Aluminum
Ferrous Metal
Galvanized Steel
Masonry, Concrete Stucco, Plaster

FEATURES AND BENEFITS

- Direct-to-Metal Application, including tightly adhering rust
Low VOC
Superior gloss and color retention
Easy to mix and apply by air or airless spray, brush or roller
Excellent UV stability
Infinite color capability
Surpasses Level 3 of SSPC-36 paint specification
Can earn LEED NC Version 2.2. Credits

PACKAGING

Comp A (95-3300 and 95-3301) are available in 1-Gallon (3.78L) and 5-Gallon (18.9 L) containers.

Comp B (95-339) is available in 1 Quart (946 mL) and 1-Gallon (3.78L) containers.

Not all containers are full-filled. Not all products are available in all sizes.

TINTING AND BASE INFORMATION

- 95-3300 Neutral Base up to 18 fl. oz.
95-3301 White Base up to 8.0 fl. oz.
95-339 Component B\*
95-3302 Yellow Base up to 14 oz.
95-3303 Red Base up to 14 oz.
95-3314 Black\*
\*Do not tint.

Use formulas from the DURETHANE® DTM section of the formula book. Use only PERFORMACOLOR® 4257 line colorants.

PRODUCT DATA

- GLOSS: 85 minimum (60° meter)
VOC: 2.01 lbs./gal. (241 g/L)
COVERAGE: 261 sq. ft./gal. @ 4 mils (24.2 sq. m/3.78L)
Note: Coverage does not include loss due to varying application method, surface profile or mixing.
DFT: 3.0 minimum to 5.0 maximum mils
WEIGHT/GALLON\*: 11.3 lbs. +/- 0.3 lbs. (136 g)
VOLUME SOLIDS\*: 65.2% +/-2%
WEIGHT SOLIDS\*: 74.3% +/-2%
FILM THICKNESS:
Dry Mil\*: 3.0 to 5.0
Dry Microns: 76.2 to 127
Wet Mil\*: 4.6 to 7.7
Wet Microns: 116.8 to 195.6
MIX RATIO: 5 parts Comp. A to 1 part Comp. B
Results will vary by color, thinning and other additives.
\*Product data calculated on mixed product 95-3301 mixed with 95-339.
POT LIFE: 3 hours @ 77°F (25°C)
INDUCTION TIME: None
MAXIMUM IN-SERVICE TEMPERATURE:
Dry Heat: 275°F (135°C)
CLEANUP: 97-727, 97-730, 97-735
FLASH POINT: 95-3300/3301 86°F (30°C)
95-339: 331°F (166°C)

DRYING SCHEDULE

Per ASTM D5895, air dry @ 50% relative humidity.

Drying times listed may vary depending on temperature, humidity, color and air movement.

Table with 4 columns: With 97-722 Accelerator, 90°F (32°C), 77°F (25°C), 40°F (4.4°C). Rows: Dry to Touch, Dry Through, Dry to Recoat.

Table with 4 columns: Without 97-722 Accelerator, 90°F (32°C), 77°F (25°C), 40°F (4.4°C). Rows: Dry to Touch, Dry Through, Dry to Recoat.

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**GENERAL SURFACE PREPARATION**

The service life of the coating is directly related to the surface preparation. The surface to be coated must be dimensionally stable, properly prepared, dry, clean and free of contamination. SSPC-SP2 Hand Tool or SSPC-SP3 Power Tool Cleaning is minimum. For best performance, SSPC-SP6 (NACE #3) Commercial Blast Cleaning is recommended. **WARNING!** If you scrape, sand, or remove old paint, you may release lead dust or fumes. **LEAD IS TOXIC. EXPOSURE TO LEAD DUST OR FUMES CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE.** Wear a properly fitted NIOSH-approved respirator and prevent skin contact to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the USEPA National Lead Information Hotline at 1-800-424-LEAD or log on to [www.epa.gov/lead](http://www.epa.gov/lead). In Canada contact a regional Health Canada office. Follow these instructions to control exposure to other hazardous substances that may be released during surface preparation.

**PREVIOUSLY PAINTED SURFACES:** Old coatings should be tested for adhesion of the existing system and lifting by the proposed top-coat.

**RECOMMENDED PRIMERS**

DURETHANE® DTM Mastic is self-priming. Aggressive environmental conditions or heavily rusted substrates require the use of a primer.

94-109	Epoxy Fast Dry Primer
97-946	All Weather DTR
97-145	PITT-GUARD® DTR
98-46	AQUAPON® WB

**LIMITATIONS OF USE**

Apply only when air, product and surface temperatures are at least 40°F (4°C) and surface temperature is at least 5°F (3°C) above the dew point. Drying times listed may vary depending on temperature, humidity and air movement. Do not apply material which has been mixed for more than three hours as loss of gloss uniformity will occur. Excess film thickness may lead to air entrapment or pinholing in the film. For Professional Use Only; Not Intended for Household Use.

**MIXING AND APPLICATION INFORMATION**

Mix Component "A" thoroughly before blending. (If 97-722 Accelerator is used, add it to the "A" Component and mix well prior to the addition of the "B" Component. Add up to 6 oz. of 97-722 per mixed gallon). Add Component "B" to Component "A" and mix well. A mechanical mixer is recommended.

**Application Equipment:** Changes in application equipment, pressures and/or tip sizes may be required depending on ambient temperatures and application conditions.

**Conventional Spray:** Fluid Nozzle: DeVilbiss MBC gun with 704 or 777 air cap with E or F tip and needle, or equivalent equipment. Atomization Pressure: 55-70 psi. Fluid Pressure: Can not specify dependent on numerous factors.

**Airless Spray:** Equipment capable of maintaining a minimum of 2500 psi at the tip without surge. 1500 psi minimum at the tip without surge. Tip size: 0.013" - 0.017" (0.331 - 0.443 mm) orifice. Spray equipment must be handled with due care and in accordance with manufacturer's recommendation. High-pressure injection of coatings into the skin by airless equipment may cause serious injury.

**MIXING AND APPLICATION INFORMATION (cont.)**

**Brush:** High Quality Natural Bristle Brush

**Roller:** High Quality 3/8" nap roller cover with a solvent resistant core.

**Thinning:** Thinning not normally required. For 2.08 lbs./gal (250 g/L) VOC, thin up to 5% by volume with 97-739 Exempt Thinner. 97-735 can be added up to 5% by volume, for brush, roll or spray application where VOC regulations allow.

**Permissible temperatures during application:**

Material:	40 to 90°F	4 to 32°C
Ambient:	40 to 100°F	4 to 38°C
Substrate:	40 to 130°F	4 to 54°C

**SAFETY**

Proper safety procedures should be followed at all times while handling this product. Explosion-proof equipment must be used when coating with these materials in confined areas. Keep containers closed and away from heat, sparks, and flames when not in use. **USE WITH ADEQUATE VENTILATION. KEEP OUT OF REACH OF CHILDREN.** Read all label and Material Safety Data Sheet for important health/safety information prior to use. MSDS are available through our website [www.ppghpc.com](http://www.ppghpc.com) or by calling 1-800-441-9695.

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