Technical Product Data

PRECISION COATINGS

# *DTM 1600 Series*
## *Waterborne Urethane Bonding Primer*

### DESCRIPTION

Single component waterborne urethane bonding primer
Interior and exterior surfaces
Soap & Water Cleanup
Very Low Odor - Low VOC
Ultra-Violet resistant
Suitable for a variety of substrates including ferrous and non-ferrous metal, masonry, drywall, MDF,
Corrosion resistant
Excellent adhesion & chemical resistant
LEED NC 2009 compliant

### TECHNICAL DATA

| | |
|---|---|
| % SOLIDS by volume | 40% |
| COATINGS VOC (as packaged) | less than 50 g/l (less water & exempt compounds) |
| SPRAYABLE VOC (as applied) | less than 50 g/l (less water & exempt compounds) |
| RESIN TYPE | urethane dispersion |
| COMPONENTS | single component |
| SHELF LIFE | one year (unopened) when properly stored |
| FLASH POINT | 144° F ( 62° C) |
| RECOMMENDED DRY FILM THICKNESS | 1.0 mils to 3.0 mils DFT |
| THEORETICAL COVERAGE | 641 – 213 sq ft at recommended DFT (no loss) |

### SURFACE PREPARATION

DTM 1600 Primer may be applied over properly prepared substrates including carbon steel, aluminum, galvanized steel, coated surfaces, concrete, masonry block, gypsum board and wood. Good painting practices require that before applying coatings a test or mock-up be performed to ensure that adhesion, appearance and color meet the expectations of the owner. Coating performance is proportional to the degree of surface preparation performed. All surfaces must be clean, dry and free of oil, grease, dirt, salt deposits or other contamination and properly abraded. Recommended preparation is as follows:

**Steel –** Clean the surface of all foreign material SSPC-SP1 followed by SSPC-SP2, SP3, SP6, SP7, SP11, SP14 or SP15.

**Aluminum -** Remove all contaminants per SSPC-SP1 and abrade using hand tool, power tool or SSPC-SP16 to obtain a profile equivalent to 220 grit sandpaper.

**Galvanized Steel –** Preparation shall meet ASTM D6386 –10. Remove all contaminants per SSPC-SP1, check for the presence of chromates or other passivation treatments per SSPC-SP16. If passivation treatment exists, brush-off blast cleaning per SSPC-SP16 is required. Complete removal of chromates or other passivating treatments must be confirmed by testing (SSPC-SP16 or ASTM B 201) prior to coating application.

**Concrete & Masonry –** Surface must be cured, clean, dry, free of contamination and disintegrated or chalky materials. SSPC-SP13 may be used for surface preparation of concrete and masonry block. *Not for Floors*

**Coated Surfaces –** On previously coated surfaces, ensure that the existing coating is properly and fully bonded to the substrate. Physically abrade the existing coated surfaces thoroughly and completely with 180 to 240 grit or equivalent abrasive paper or scuff pad. For primed substrates, follow the surface preparation instructions and recoat times for the specific primer used.

**Gypsum Board –** Surface should be clean and dry. Two coats of DTM 1600 Primer are required if gypsum board is not primed due to surface porosity. If primed, one coat of DTM 1600 Primer is required before finish coating.

**PRECISION COATINGS**
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## *Waterborne Urethane Bonding Primer*

### INSTRUCTIONS
Stir or shake thoroughly to ensure uniform mixture.
**Reduction is not necessary.** However, paint may be reduced up to 5% by volume using tap water.

### APPLICATION
May be applied by brush, roller or spray. If sprayed, apply using 40-55 PSI at the gun for siphon and gravity feed spray guns, 10 PSI max. for HVLP spray guns. Apply 1-3 medium wet coats until desired coverage and flow is reached. Allow a 5 to 10 minute flash time between coats. Recommended film thickness is 1.0 to 3.0 mils DFT.

### SPRAY GUN SET-UP & PRESSURE

| Type | Fluid Tip | Spraying Pressure |
|---|---|---|
| Siphon Feed | 1.4mm – 1.7mm | 40-65-PSI |
| Gravity Feed | 1.3mm – 1.4mm | 40-65 PSI |
| HVLP Siphon | 1.6mm – 1.8mm | max. 10 PSI @ the air cap |
| HVLP Gravity | 1.3mm – 1.5mm | max. 10 PSI @ the air cap |
| Pressure Pot | 1.1 mm- 1.3 mm | 29 PSI - 58 PSI |
| Airless Spray | .011” - .015 | 2500 PSI, 100 mesh filter |

### DRY TIMES

| Dry times @ 70˚F (21˚C) and 50% RH | |
|---|---|
| Dust Free | 15 minutes |
| Dry to Touch | 1 hour |
| Dry Time | 24 hours |
| Full Cure | 14 days |
| Recoat | Unlimited - no recoat time necessary<br>Sanding will become necessary after 24 hours. |

### CLEAN UP
Clean all tools and spray equipment immediately after use with soap and warm water. Acetone may be used as a final rinse.

### LIMITATIONS
Protect installed coating from rain, freezing, and continuous high humidity until completely dry. Do not apply in freezing conditions or if rain is imminent. Do not apply if elevated levels of water vapor transmission may exist following application. At water vapor transmission levels greater than 4 perms, blistering or bubbles may occur. Do not use below grade, on horizontal surfaces or in areas of ponding water.

Refer to Material Safety Data Sheet for proper handling of products listed in this bulletin.



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