

Technical Product Data



PRECISION COATINGS

PRECISION DTM 1300v100 SERIES **High Build Modified Epoxy Primer**

DESCRIPTION

Surface tolerant epoxy primer
Interior and exterior surfaces
Spray, brush or roll application
High film build
Exceptional adhesion to a wide variety of substrates

Fast recoat time
Low VOC
Superior protective properties
LEED NC 2009 compliant

TECHNICAL DATA

| | |
|--------------------------------|--|
| AVAILABLE COLORS | White (# 13600), Gray (# 13500), Black (# 13200) |
| % SOLIDS by volume | 60% as packaged, 54% as applied |
| SPRAYABLE VOC as applied | 96 g/l (less water & exempt compounds) |
| COMPONENTS | DTM 1300v100 Series High Build Primer (resin) 3 parts 13510 High Build Primer Converter (cure) 1 part |
| POT LIFE | 3 hours @ 70° F, 21° C |
| SHELF LIFE | one year (unopened) |
| REDUCERS | optional: use PCI's 16050 VOC Exempt Reducer |
| FLASH POINT | 65° F, 18° C |
| MIX RATIO | 3:1 (3 parts primer : 1 part converter) |
| RECOMMENDED DRY FILM THICKNESS | 2.0 mils to 6.0 mils |
| THEORETICAL COVERAGE | 433 – 144 sq. ft. at recommended DFT (theoretical) |

SURFACE PREPARATION

DTM 1300v100 Series Primer may be applied over properly prepared substrates including steel, aluminum, galvanizing, coated surfaces, concrete, masonry block, gypsum board and wood. Good painting practices dictate that before applying coatings a test or mock-up be performed to ensure that the adhesion, appearance and color are compatible with the substrate and meet the expectations of the owner. Coating performance is, in general, 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. Recommended preparation is as follows:

Steel – Clean the surface of all foreign material SSPC-SP1 and SSPC-SP2 or SSPC-SP3, 6, or 7. Precision's 02150 Metal Conditioner may be used to clean and treat steel substrates to eliminate oil, soap film, grease, and flash rusting.

Aluminum & Galvanizing – Clean the surface of all foreign material SSPC-SP1 and SSPC-SP2 or SSPC-SP3, 6, or 7. PCI's 02150 Metal Conditioner may be used to clean and treat aluminum and galvanizing to eliminate oil and soap film.

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.

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 1300v100 are required if gypsum board is not primed due to surface porosity. If primed, one coat of DTM 1300v100 is required before finish coating.

PRECISION COATINGS

1940 E. Trafficway, Springfield, MO 65802
888.340.6780 or 417.862.5738 fax 417.862.8874
www.precisioncoatingsinc.com

Technical Product Data



PRECISION DTM 1300v100 SERIES High Build Modified Epoxy Primer

PRECISION COATINGS

INSTRUCTIONS – MIX RATIO

Stir or shake thoroughly to ensure uniform mixture. Mix 3 parts DTM 1300v100 resin with 1 part DTM 13510 Converter.

Reduction is not necessary. However, activated primer may be reduced up to 10% by volume using Precision's 16060 VOC Exempt Reducer.

APPLICATION

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 2.0 to 6.0 mils DFT. May be brushed or rolled for field service applications. Use a natural bristle brush or ¼ inch to ¾ inch nap, phenolic core roller.

SPRAY GUN SET-UP & PRESSURE

| <u>Type</u> | <u>Fluid Tip</u> | <u>Spraying Pressure</u> |
|---------------|-------------------------------------|---------------------------|
| 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 | Double Orifice 415 through 517 Tips | |

ROLLER AND BRUSH APPLICATION

Brush – natural bristle

Roller – 1/4 to 3/8 inch nap, mohair or no-lint cover with a phenolic core

We do not recommend foam roller application

DRY TIMES

Dry times @ 70°F (21°C) and 50% RH

| | |
|-----------|--|
| Dust Free | 5 minutes |
| Tack Free | 1 hour |
| Dry Time | 24 hours |
| Recoat | May be recoated after 1 hour. Sanding or light abrasion may be necessary after 72 hours. |

CLEAN UP

Clean all spray equipment immediately after use. Acetone may be used to clean application equipment.

PCI's 17000 Gun Cleaner is a VOC exempt cleaner and is recommended for cleaning application equipment used to apply the DTM 1300v100 Series High Build Primer system.

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

DISCLAIMER: The technical information and suggestions for use have been compiled for your guidance and usage. Such information is based on Precision Coatings experience and research and is believed to be reliable. As Precision Coatings has no control over conditions in which the product is used, stored, or otherwise handled, the above information does not constitute a warranty. Buyers must assume responsibility for the suitability of the product for their purposes.

PRECISION COATINGS

1940 E. Trafficway, Springfield, MO 65802
888.340.6780 or 417.862.5738 fax 417.862.8874
www.precisioncoatingsinc.com

Technical Product Data



PRECISION DTM 1300v100 SERIES High Build Modified Epoxy Primer

PRECISION COATINGS

PERFORMANCE DATA

| TEST METHOD | SYSTEM (7 day, ambient temp. cure) | RESULTS |
|--|--|---|
| ASTM D-3359 Adhesion | Cold Rolled Steel Solvent wipe 02150 Metal Conditioner 2.7 mils DFT DTM 1300v100 Primer 1.6 mils DFT PC3v100 Topcoat | 100% retention (no tape off) |
| ASTM D-4587 QUV Resistance Accelerated Weathering | Cold Rolled Steel Solvent wipe 02150 Metal Conditioner 2.7 mils DFT DTM 1300v100 Primer 1.6 mils DFT PC3v100 Topcoat | Gloss - 98% retention after 2012 hours delta E color change - 0.33 after 2012 hours No blistering, rusting, checking or cracking |
| ASTM B-117 Salt Fog | Cold Rolled Steel Solvent wipe 02150 Metal Conditioner 2.7 mils DFT DTM 1300v100 Primer 1.6 mils DFT PC3v100 Topcoat | No face corrosion nor blistering after 1000 hours |
| ASTM D-2287 Humidity Resistance | Cold Rolled Steel Solvent wipe 02150 Metal Conditioner 2.7 mils DFT DTM 1300v100 Primer 1.6 mils DFT PC3v100 Topcoat | No blistering, cracking, softening or delamination after 1000 hours |
| ASTM D-1308 Chemical Resistance 24 hour spot test | Cold Rolled Steel Solvent wipe 02150 Metal Conditioner 2.7 mils DFT DTM 1300v100 Primer 1.6 mils DFT PC3v100 Topcoat | 87 octane unleaded gasoline - rating 5 no effect 10% Sulfuric Acid - rating 5 no effect |
| ASTM D-5402 Chemical Resistance solvent rubs | Cold Rolled Steel Solvent wipe 02150 Metal Conditioner 2.7 mils DFT DTM 1300v100 Primer 1.6 mils DFT PC3v100 Topcoat | Xylene - 200 double rubs no effect Methyl ethyl ketone (MEK)-200 double rubs no effect 87 octane unleaded gasoline - 200 double rubs no effect. |
| ASTM D-522 Flexibility | Cold Rolled Steel Solvent wipe 02150 Metal Conditioner 2.7 mils DFT DTM 1300v100 Primer 1.6 mils DFT PC3v100 Topcoat | 180 degree bend, 1/4" mandrel - pass |

2/2012

PRECISION COATINGS

1940 E. Trafficway, Springfield, MO 65802
888.340.6780 or 417.862.5738 fax 417.862.8874
www.precisioncoatingsinc.com