

Technical Product Data



PRECISION COATINGS

PRECISION DTM 3000 SERIES **Polyurethane Primer**

DESCRIPTION

Multi-purpose polyurethane primer
Interior and Exterior surfaces
Spray, brush or roll application
May be used as a primer sealer
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 (# 30500), Gray (# 30560), Black (# 30540), Red Oxide (#30550), Yellow Oxide (#30570)
% SOLIDS by volume	43% as packaged, 45% as applied
SPRAYABLE VOC as applied	28 g/l (less water & exempt compounds)
COMPONENTS	DTM 3000 Series Polyurethane Primer (resin) 3 parts PC-03 Polyurethane Activator (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 activator)
RECOMMENDED DRY FILM THICKNESS	1.5 mils to 3.0 mils
THEORETICAL COVERAGE	481 – 240 sq. ft. at recommended DFT (no loss)

SURFACE PREPARATION

DTM 3000 Series Primer may be applied over properly prepared substrates including steel, aluminum, galvanizing, coated surfaces, concrete, masonry block, and wood. Recommended preparation is as follows:

Steel – 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 steel substrates to eliminated oil, soap film, grease, and flash rusting.

Aluminum & Galvanizing – Clean the surface of all foreign material. 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 – Physically abrade existing coated surfaces. PCI's Paint Prep may also be used to treat existing finishes, including polyurethane finishes. Paint prep eliminates the need for abrasion. The existing finish must be tightly adhered to the substrate.

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INSTRUCTIONS – MIX RATIO

Stir or shake thoroughly to ensure uniform mixture. Mix 3 parts DTM 3000 Series Primer with 1 part PC-03 Polyurethane Activator.

Reduction is not necessary. However, primer may be reduced up to 10% by volume using PCI's 16050 VOC Exempt Reducer.

For faster cure times, add up to 8 oz of PCI's 12030 Urethane Accelerator per ready to spray gallon of primer.

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 to 3 medium wet to wet coats until desired coverage and flow is reached. Allow a 5 to 10 minute flash time between coats. Recommended film thickness is 1.5 to 3.0 mil 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	1.6mm – 1.8mm	40-65-PSI
Gravity Feed	1.6mm – 1.8mm	40-65 PSI
HVLP Siphon	1.6mm – 1.8mm	max. 10 PSI @ the air cap
HVLP Gravity	1.6mm – 1.8mm	max. 10 PSI @ the air cap
Pressure Pot	1.1 mm- 1.3 mm	29 PSI - 58 PSI
Airless Spray	.015" - .025"	2500 PSI 100 mesh filter

Brush – natural bristle

Roller – ¼ to ¾ inch nap, phenolic core

DRY TIMES

DTM 3000 Series Primer may be air dried or force dried

Dry times @ 70°F (21°C) and 50% RH

Dust Free 5 minutes

Tack Free 1 hour

Recoat May be recoated at any stage.

Scuff sanding or light abrasion will become necessary after 24 hours.

Force Dry 140° F for 20 minutes. Allow a 10 minute cool down time before handling.

CLEAN UP

Clean all spray equipment immediately after use. Acetone may be used for cleanup of application equipment. PCI's 17000 Gun Cleaner is a VOC exempt cleaner and is recommended for cleaning application equipment used to apply the DTM 3000 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.

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PERFORMANCE DATA

TEST METHOD	SYSTEM (7 day, ambient temp. cure)	RESULTS
ASTM D-3359 Adhesion	Cold Rolled Steel Solvent wipe 02150 Metal Conditioner 1.8 mils DFT DTM 3000 Primer 1.4 mils DFT PC3/PC-03 Topcoat	100% retention (no tape off)
ASTM D-4587 QUV Resistance Accelerated Weathering	Cold Rolled Steel Solvent wipe 02150 Metal Conditioner 1.8 mils DFT DTM 3000 Primer 1.4 mils DFT PC3/PC-03 Topcoat	Gloss - 98% retention after 2012 hours delta E color change - 0.42 after 2012 hours No blistering, rusting, checking or cracking
ASTM B-117 Salt Fog	Cold Rolled Steel Solvent wipe 02150 Metal Conditioner 1.8 mils DFT DTM 3000 Primer 1.4 mils DFT PC3/PC-03 Topcoat	No face corrosion nor blistering after 1000 hours
ASTM D-2287 Humidity Resistance	Cold Rolled Steel Solvent wipe 02150 Metal Conditioner 1.8 mils DFT DTM 3000 Primer 1.4 mils DFT PC3/PC-03 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 1.8 mils DFT DTM 3000 Primer 1.4 mils DFT PC3/PC-03 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 1.8 mils DFT DTM 3000 Primer 1.4 mils DFT PC3/PC-03 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 1.8 mils DFT DTM 3000 Primer 1.4 mils DFT PC3/PC-03 Topcoat	180 degree bend, 1/4" mandrel - pass

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4.2011

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