

BR DTM High Build Epoxy Primer

High Build Primer

TECHNICAL DATA SHEET

PITTSBURGH PAINTS



Description

BR DTM High Build Epoxy Primer is a high build, surface tolerant modified epoxy zinc-phosphate primer that is low VOC. BR DTM High Build Epoxy Primer can be sanded to achieve a smooth surface to be top coated.

Features & Benefits

- Surface Tolerant Epoxy Primer
- Interior /Exterior
- Spray, Brush, or Roll Application
- High Film Build
- Low VOC
- Exceptional Adhesion to a Wide Variety of Substrates
- Fast Recoat Time
- Excellent Protective Properties

Color & Finish

Color	Part A Item Code	Part B Item Code	Finish
Black	BRPPC-EPBL	BRPPC-EPB	Flat
Gray	BRPPC-EPG	BRPPC-EPB	
White	BRPPC-EPW	BRPPC-EPB	

Surface Preparation

BR DTM High Build Epoxy 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 BR DTM High Build Epoxy Primer are required if gypsum board is not primed due to surface porosity. If primed, one coat of BR DTM High Build Epoxy Primer is required before finish coating.

Instructions - Mix Ratio

Stir or shake thoroughly to ensure uniform mixture. Mix 3 parts BR DTM High Build Epoxy Primer with 1 part BR DTM High Build Epoxy Primer Activator.

Reduction is not necessary.

Application

Environmental Conditions: Air and surface temperature must be above 50° F and no more than 95° F. Surface temperature must be at least 5°F (3°C) above the dew point.

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

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	Double Orifice 415 through 517 Tips	

Roller & Brush Application

Tool	Specification
Brush	Natural bristle
Roller	1/4 to 3/8 inch nap, mohair or no-lint cover with a phenolic core
Foam Roller	We do not recommend foam roller application

Dry Times

Dry Times @ 70°F (21°C) & 50% RH	
Dust Free	15 Minutes
Dry to Touch	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.

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

SDS, spill, and emergency information are available by calling 1-833-477-1553.

Technical	
% Solids by Volume	34% as packaged, 38% as applied
COATINGS VOC (as packaged)	Less than 96 g/l (less exempt compounds)
COATING VOC (as applied)	Less than 96 g/l (less exempt compounds)
Components	Part A (resin) 3 parts / Part B (cure) 1 part
Pot Life	3 hours @ 70° F, 21° C
Shelf Life	one year (unopened) when properly stored
Reducers	N/A
Flash Point	102° F, 38° C
Mix Ratio	3:1
Recommended Dry Film	2.0 mils to 3.0 mils
Theoretical Coverage	609 – 203 sq ft at recommended DFT (no loss)



Test Method	System	Results
ASTM D-3359 Adhesion	Cold Rolled Steel Q-Panel Solvent Wipe 02150 Metal Conditioner 2.7 mils DFT BR DTM High Build Epoxy Primer 1.6 mils DFT BRP's 2K Acrylic Topcoat	100% Retention (No Tape Off)
ASTM D-4587 QUV Resistance Accelerated Weathering	Cold Rolled Steel Q-Panel Solvent Wipe 02150 Metal Conditioner 2.7 mils DFT BR DTM High Build Epoxy Primer 1.6 mils DFT BRP's 2K Acrylic Topcoat	Gloss - 98% Retention after 2012 hrs Delta E color Change - 0.33 after 2012 hrs No blistering, rusting, checking or cracking
ASTM B-117 Salt Fog	Cold Rolled Steel Q-Panel Solvent Wipe 02150 Metal Conditioner 2.7 mils DFT BR DTM High Build Epoxy Primer 1.6 mils DFT BRP's 2K Acrylic Topcoat	No face blistering after 1000 hrs No face corrosion after 1000 hrs
ASTM D-2287 Humidity Resistance	Cold Rolled Steel Q-Panel Solvent Wipe 02150 Metal Conditioner 2.7 mils DFT BR DTM High Build Epoxy Primer 1.6 mils DFT BRP's 2K Acrylic Topcoat	No blistering, cracking, softening or delamination after 1000 hrs
ASTM D-1308 Chemical Resistance 24 Hour Spot Test	Cold Rolled Steel Q-Panel Solvent Wipe 02150 Metal Conditioner 2.7 mils DFT BR DTM High Build Epoxy Primer 1.6 mils DFT BRP's 2K Acrylic 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 Q-Panel Solvent Wipe 02150 Metal Conditioner 2.7 mils DFT BR DTM High Build Epoxy Primer 1.6 mils DFT BRP's 2K Acrylic 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 Q-Panel Solvent Wipe 02150 Metal Conditioner 2.7 mils DFT BR DTM High Build Epoxy Primer 1.6 mils DFT BRP's 2K Acrylic Topcoat	180° bend, 1/4" mandrel - pass

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