



PC3 Solvent Based Acrylic Polyurethane Topcoat Clear

Description

PC3 Solvent Based Acrylic Polyurethane Topcoat high cross-link density acrylic aliphatic polyurethane finish coat is available in gloss, semi-gloss, satin, egg-shell and matte/flat. PC3 Solvent Based Acrylic Polyurethane Topcoat comes in solid colors, metallics, and iridescents. PC3 Solvent Based Acrylic Polyurethane Topcoat is less than 50 grams per liter VOC and LEED V4 compliant. PC3 Solvent Based Acrylic Polyurethane Topcoat can be applied over surfaces primed with DTM 1300 High Build Primer, DTM 1400 Non Sanding Primer, and DTM 3000 Polyurethane Primer.

PC3 Solvent Based Acrylic Polyurethane Topcoat is available at higher VOC levels for use in compliant areas.

Recommended Uses

- Adds depth of images in gloss
- For interior prepared metal & wood
- Protective surface for restaurants & hotels
- Anti-graffiti formulation available

Features & Benefits

- Aliphatic Polyurethane
- Ultra Low VOC, <1 g/L
- Fine Finish Quality
- Interior /Exterior
- USGBC LEED Version 4 Compliant
- Ferrous & Non-Ferrous Substrates
- Non-Yellowing
- Field & Shop Application
- Superior Weathering & Durability

Color & Finish

Color	Finish
Clear	Eggshell, Flat, Gloss, Satin

Surface Preparation

PC3 Solvent Based Acrylic Polyurethane Topcoat may be applied over properly prepared substrates including steel, aluminum, galvanizing, selective decorative metals and interior wood. Good painting practices require that before applying coatings, a test or mock-up be performed to ensure the adhesion, compatibility, appearance, suitability, and color meet the expectations of all concerned. Recommended preparation is as follows:

Steel – Clean all surfaces of all foreign material SSPC-SP1 and SSPC-SP2 or SSPC-SP3, 6, or 7. Clean to eliminate all oils, grease, soap films, rust and other contaminants.

Aluminum - Clean the surface of all foreign material SSPC-SP1 and SSPC-SP2 or SSPC-SP3, 6, or 7. Clean to eliminate all oil, grease and soap film contamination.

Wood Interior Only – Sand to appropriate smoothness. Clean to eliminate sanding dust and other contamination. Porous woods may require additional coats of clear. Not recommended for exterior wood.

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, MDF, Drywall – Surface must be clean, dry and free of any dirt, dust, grease, oil, wax, mildew, disintegrated or chalky materials or other contaminants. PC3 is not recommended for floors.

PC3 Solvent Based Acrylic Polyurethane Topcoat – PC3 Solvent Based Acrylic Polyurethane Topcoat may be applied directly over PC3 Solvent Based Acrylic Polyurethane Topcoat. Allow topcoat to flash 20 minutes before applying PC3 Solvent Based Acrylic Polyurethane Topcoat. After 24 hours, scuff sanding or a light abrasion may be required on the PC3 Solvent Based Acrylic Polyurethane Topcoat topcoat before clear coating utilizing 320 grit paper or finer. PC3 Solvent Based Acrylic Polyurethane Topcoat can be cut and buffed to achieve extreme high gloss, flaw free finish.

Instructions – Mix Ratio:

After colorant has been added, stir or shake Parts A & B before mixing together. Mix thoroughly 3 parts PC3 Solvent Based Acrylic Polyurethane Topcoat with 1-part PC3 Polyurethane Activator just prior to beginning application.

Reduction is not necessary. However, clear coat may be reduced up to 10% by volume using acetone or Precision Coatings 16050 VOC Exempt Reducer. For faster cure times, add up to 8 oz of Precision Coatings 12030 Urethane Accelerator per activated gallon of clear coat. For fisheyes or other related surface defects, add 1 oz of Precision Coatings Fisheye Remover, #15000, per activated gallon of clear coat.

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Application For Metallic Colors

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: PC3 Solvent Based Acrylic Polyurethane Topcoat may be applied by spray, roller or brush application. For spray 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 of clear. Recommended film thickness is 2.0 to 3.0 mils DFT. Special care should be taken on edges that need to be coated to ensure that adequate film build is achieved. A stripe coat may be necessary for these conditions.

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	

Dry Times

PC3 Solvent Based Acrylic Polyurethane Topcoat may be air dried or force dried

Dry Times @ 70°F (21°C) & 50% RH	
Dust Free	15 Minutes
Tack Free	3 Hours
Dry Time	24 Hours
Recoat	Maybe recoated with itself at any stage. Standing will become necessary after 24 hours.
Force Drying	30- Minute flash time / 140°F for 20 Allow a 10-min. cool down time

Clean Up

Clean all spray equipment immediately after use. Acetone may be used to clean spray equipment. Precision Coatings 17000 Gun Cleaner is a VOC exempt cleaner and is recommended for cleaning application equipment used to apply the PC3 system.

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

Technical Data	
% Solids by Volume	30% as packaged, 35% as applied
Coatings VOC (as packaged)	0.12 g/l (less water & exempt compounds)
Sprayable VOC (as applied)	0.07 g/l (less water & exempt compounds)
Components	PC3 (resin) 3 parts / PC-03 (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	79° F, 26° C
Mix Ratio	3:1 (3 parts PC3: 1 part PC-03 Activator)
Recommended Dry Film	2.0 mils to 3.0 mils
Theoretical Coverage	561 – 187 sq ft at recommended DFT (no loss)

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Surface conditions and application variables are out of the control of Rainguard Brands, LLC. As such, the applicator agrees to: Follow recommended application instructions, acknowledge limitations outlined in this technical data sheet, contact the manufacturer if there are any uncertainties, and perform a test panel to confirm fit and finish before any general application. The data on this sheet represent typical values. Since application variables are a major factor in product performance, this information should serve only as a general guide. Rainguard Brands assumes no obligation or liability for the use of this information. Contact the manufacturer at 417-862-5738 before bidding to confirm warranty provisions and procedures.

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