



# PC3 Solvent Polyurethane Metallic & Solid Standard Colors

## Description

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

## Recommended Uses

- Add a metallic, iridescent (pearl) and solid color effect
- Ideal as a finish coat to solid colors
- Can be used on ferrous and non-ferrous substrates

## Features & Benefits

- Aliphatic Polyurethane
- Low VOC
- Fine Finish Quality
- Interior /Exterior
- USGBC LEED Version 4 Compliant
- Clear Pearlescent Sparkle Effect
- Non-Yellowing
- Field & Shop Application

## Color & Finish

Color	Finish
Clear	Gloss, Semi-Gloss, Satin, Eggshell, Matte
Black	Gloss, Satin, Flat, Satin
Silver Mist Metallic	Eggshell, Flat, Gloss, Semi-Gloss, Satin
Silver Frost Metallic	Gloss
Pewter	Gloss, Satin
Chrome Tint Metallic	Semi-Gloss, Satin
Platinum Metallic	Gloss, Semi-Gloss
Silver Surfer Metallic	Satin
Fleet White	Flat, Gloss
Glamour White	Flat
Shadow Beige	Flat
Bronze Metallic	Gloss, Satin
Wheat Metallic	Semi-Gloss, Satin
Oxford Brown	Flat, Satin
Treasure Gold Metallic	Gloss

Casino Gold Metallic	Gloss, Satin
Aged Copper Metallic	Gloss, Semi-Gloss
Inferno Maroon Metallic	Gloss
Viper Red	Gloss
Candy Apple Red Metallic	Gloss

## Surface Preparation

Best results are achieved when PC3 Solvent Polyurethane are applied over a two-component primer such as Precision's DTM 1300 High Build Primer. DTM 1300 High Build Primer is UV resistant primers for use under solid colors as well as metallic and iridescent colors which are translucent.

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 prior to priming the substrate. 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, 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.

Previously Coated Surfaces - Surface must be clean, dry, and free of any dirt, dust, grease, oil, wax, mildew, disintegrated or chalky materials or other contaminants. Aged coatings should be abraded to achieve an acceptable profile to provide adequate adhesion for the primer and topcoat.



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## 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:** Clear Sparkle Coat 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.

## Instructions - Mix Ratio

Stir or shake each container before mixing together. Mix thoroughly 3 parts PC3 Solvent Polyurethane with 1 part PC-03 Polyurethane Activator.

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

For faster cure times, add up to 8 oz of PCI's 12030 Urethane Accelerator per activated gallon of topcoat. For fisheyes or other related surface defects, add 1 oz of PCI's Fisheye Remover, #15000, per activated gallon of topcoat.

## Application for "Solid Colors" & "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:** Solid colors may be applied by spray, roller and brush application. Metallic colors should be applied by spray application only. Allow a 5 to 10-minute flash time between coats if spray applied. PC3 Solvent Polyurethane should be applied to achieve a recommended dry film thickness between 1.0 to 3.0 mils. For detailed metallic and iridescent application instructions, see Precision Coatings' Guidance: "Metallic and Iridescent Finishes."

## 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

\*For solid colors only, not recommended for application of metallics

## Dry Times

PC3 Solvent Polyurethane 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	May be recoated with itself at any stage. Sanding will become necessary after 24 hours.
Force Drying	30 Minute flash time / 140°F for 20 min. Allow a 10 min cool down time.

Temperature Resistance (Dry): Continuous 200°F / Intermittent 250°F

## Clean Up

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

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

Note: PC3 Solvent Polyurethane is available at higher VOC levels for use in compliant areas. See your Precision Coatings representative for additional information.

# PC3 Solvent Polyurethane Metallic & Solid Standard Colors

Technical Data	
% Solids by Volume	34% as packaged, 38% as applied
Sprayable VOC (as applied)	Max. 50 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) when properly stored
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	609 – 203 sq ft at recommended DFT (no loss)

Test Method	System (7 day, ambient temp. cure)	Results
ASTM D-3359 Adhesion	Cold Rolled Steel Q-Panel Solvent wipe 02150 Metal Conditioner 1.4 mils DFT PC3v100/PC03 Topcoat	100% retention (no tape off)
ASTM D-4587 QUV Resistance Accelerated Weathering	Cold Rolled Steel Q-Panel Solvent wipe 02150 Metal Conditioner 1.4 mils DFT PC3v100/PC03 Topcoat	Gloss - 96% retention after 2020 hours delta E color change - 0.27 after 2020 hours No blistering, rusting, checking or cracking
ASTM B-117 Salt Fog	Cold Rolled Steel Q-Panel Solvent wipe 02150 Metal Conditioner 1.4 mils DFT PC3v100/PC03 Topcoat	No face blistering after 500 hours No face corrosion after 500 hours
ASTM D-2287 Humidity Resistance	Cold Rolled Steel Q-Panel Solvent wipe 02150 Metal Conditioner 1.4 mils DFT PC3v100/PC03 Topcoat	No blistering, cracking, softening or delamination after 500 hours Gloss - 97% retention after 500 hours
ASTM D-1308 Chemical Resistance 24-hour spot test	Cold Rolled Steel Q-Panel Solvent wipe 02150 Metal Conditioner 1.4 mils DFT PC3v100/PC03 Topcoat	87 octane unleaded gasoline - rating 5 no effect 10% Sulfuric Acid (Acid Rain) – rating 5 no effect
ASTM D-5402 Chemical Resistance solvent rubs	Cold Rolled Steel Q-Panel Solvent wipe 02150 Metal Conditioner 1.4 mils DFT PC3v100/PC03 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 1.4 mils DFT PC3v100/PC03 Topcoat	180-degree bend, 1/4" mandrel - pass



## **PC3 Solvent Polyurethane Metallic & Solid Standard Colors**

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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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