

PC5 Polysiloxane

3rd Generation Polysiloxane



Description

PC5 Polysiloxane is a very durable, high-quality 3rd generation polysiloxane finish that offers superior flexibility, gloss retention and color retention. PC5 Polysiloxane is available in gloss and low semi-gloss finish in solid colors and clear. PC5 Polysiloxane provides a stain-resistant, easily cleaned, graffiti resistant, low odor, low VOC* coating system for interior and exterior surfaces. PC5 Polysiloxane can be applied over properly prepared substrates including carbon steel, aluminum, ceramic tile, polished stone, gypsum board, CMU, concrete and intact previously coated surfaces. PC5 Polysiloxane is designed for occupied space application.

Recommended Uses

- Commercial Architectural
- Commercial Transport
- Ferrous & Non-Ferrous Substrates
- Fleet Vehicles
- Graffiti Resistance
- Industrial Maintenance
- Marine
- Structural Steel

Features & Benefits

- Polysiloxane
- Low VOC
- Chemical Resistant
- Interior /Exterior
- USGBC LEED Version 4 Compliant
- Superior Weathering & Durability
- Metallic Colors
- Field & Shop Application

Color & Finish

Color	Finish
Clear	Semi-Gloss
White	Gloss
Yellow Flash	Semi-Gloss

Surface Preparation

PC5 Polysiloxane may be applied over appropriately prepared steel, aluminum, galvanizing, concrete, masonry, ceramic tile and coated surfaces. PC5 Polysiloxane may also be applied over appropriately primed substrates.

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.

Steel – Clean the surface of all foreign material SSPC-SP1 and SSPC-SP2 or SSPC-SP3, 6, or 7. Substrate must be clean and dry prior to application of the PC5 Polysiloxane. For primed substrates, follow the surface preparation instructions and recoat times for the specific primer used.

Aluminum - Clean the surface of all foreign material SSPC-SP1 and SSPC-SP2 or SSPC-SP3, 6, or 7. Substrate must be clean and dry prior to application of the PC5 Polysiloxane. For primed substrates, follow the surface preparation instructions and recoat times for the specific primer used.

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.

Ceramic Tile – Tile surface and grout must be clean and dry. All wax, grease, silicone sealants and dirt must be removed from the surface. It is strongly recommended that a test application be completed on ceramic tile to ensure adhesion prior to commencement of full application of PC5 Polysiloxane.

Concrete & Masonry – Surface must be cured, clean, dry, and free of contamination and disintegrated or chalky materials. SSPC-SP13 may be used for surface preparation of concrete and masonry block. Substrate must be clean and dry prior to application of the PC5 Polysiloxane. For primed substrates, follow the surface preparation instructions and recoat times for the specific primer used.

Coated surfaces – Physically abrade existing coated surfaces thoroughly and completely with 220 grit or equivalent abrasive paper or scuff pad. Substrate must be clean and dry prior to application of PC5 Polysiloxane. For primed substrates, follow the surface preparation instructions and recoat times for the specific primer used.

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Instructions - Mix Ratio

Stir or shake thoroughly to ensure uniform mixture. Mix 4 parts Polysiloxane resin with 1 part Polysiloxane activator. Stir or drill motor mix thoroughly to ensure uniform mixture. Additional reduction is not usually necessary, but if needed use Precision Coatings 16060 VOC Exempt Reducer.

Application

Apply using 40-55 PSI at the gun for siphon and gravity feed spray guns, 10 PSI max. at the air cap for HVLP spray guns. Apply 1-2 medium wet coats until desired coverage and flow is reached. Allow a 5 to 10-minute flash time between coats. Recommended film thickness is 3.0 to 5.0 mils DFT. Surface temperatures must be at least 5° F (3° C) above the dew point for application.

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 312 through 512 Fine Finish Tips (for clears and solid colors only)	

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

PC5 Polysiloxane may be air dried or force dried

Dry Times @ 70°F (21°C) & 50% RH	
Tack Free	4 Hours
Dry Time	24 Hours
Recoat	Full recoat 24 hours

Clean Up

Follow local, state and federal regulations. 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 PC5 Polysiloxane system. Refer to Material Safety Data Sheet for proper handling of products listed in this bulletin. Acetone may be used to clean application equipment immediately after use.

Technical Data	
% Solids by Volume	92% as applied
Coatings VOC (as packaged)	max. 3 g/l (less water & exempt compounds)
Sprayable VOC (as applied)	max. 89 g/l (less water & exempt compounds) includes cure volatiles
Components	Polysiloxane Coating (resin) 4 parts / Polysiloxane Activator (cure) 1 part
Pot Life	4 hours @ 70° F, 21° C
Shelf Life	one year (unopened)
Reducers	optional: use PCI's 16060 VOC Exempt Reducer
Flash Point	109° F, 42.8° C
Mix Ratio	4:1 (4 parts resin: 1-part activator)
Recommended Dry Film	3-5 mils per coat (75-125 microns), 1 to 2 coats
Theoretical Coverage	492 – 295 sq. ft. at recommended DFT (theoretical)

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