

# Technical Product Data



## **REFLECT 5000** **Infra-Red Reflective Finish Coat**

PRECISION COATINGS

### **Description**

High performance siloxane coating  
Superior weathering and chemical resistance  
Field and shop applied  
Gloss and low semi-gloss finishes  
LEED NC 2009 compliant

Reflects heat, keeping substrates cooler  
Low VOC / Non-isocyanate  
Corrosion resistant  
Cures at ambient temperature  
Fine finish quality

### **USES**

Commercial architectural  
Metal roofs and hand rails  
Ferrous and non-ferrous substrates

Industrial maintenance  
Graffiti resistance

### **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	Siloxane Coating (resin) 4 parts / Siloxane Activator (cure) 1 part
POT LIFE	4 hours @ 70° F, 21° C
SHELF LIFE	one year (unopened)
REDUCERS	Option use Precision'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 THICKNESS	3-5 mils per coat (75-125 microns), 1 to 2 coats
THERORETICAL COVERAGE	492 – 295 sq. ft. at recommended DFT (theoretical)

### **SURFACE PREPARATION**

Best results are achieved when REFLECT 5000 is applied over a two-component primer such as PCI's DTM 1300 Series High Build Primer, DTM 1400 Series Non-Sanding Primer or DTM 3000 Series Polyurethane Primer. A white primer is recommended to allow for maximum heat reflection.

Good painting practices require that before applying coatings, a test or mock-up be performed to ensure that adhesion, appearance, performance 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 Reflect 5000. 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 Reflect 5000. 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 Reflect 5000.

**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.

**PRECISION COATINGS**

1940 E. Trafficway, Springfield, MO 65802

417.862.5738

[www.precisioncoatingsinc.com](http://www.precisioncoatingsinc.com)



## **REFLECT 5000** **Intra-Red Reflective Finish Coat**

Substrate must be clean and dry prior to application of the Reflect 5000. 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 the Precision Reflect 5000. For primed substrates, follow the surface preparation instructions and recoat times for the specific primer used.

### **INSTRUCTIONS – MIX RATIO**

Stir each container before mixing together. Mix 4 parts siloxane resin with 1 part siloxane activator. Stir or drill motor mix thoroughly to ensure uniform mixture. Additional reduction is not usually necessary, but if needed use Precision's 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**

<u>Type</u>	<u>Fluid Tip</u>	<u>Spraying Pressure</u>
Siphon Feed	1.4mm – 1.7mm	40-65-PSI
Gravity Feed	1.3mm – 1.4mm	40-65 PSI
HVLP Siphon	1.3mm – 1.5mm	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 AND BRUSH APPLICATION**

Brush – natural bristle

Roller – 1/4 to 3/8 inch nap, mohair or no-lint cover with a phenolic core

We do not recommend foam roller application

### **DRY TIMES**

Dry times @ 70°F (21°C) and 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. PCI's 17000 Gun Cleaner is a VOC exempt cleaner and is recommended for cleaning application equipment used to apply the Reflect 5000 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.

**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 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.*

11/2016