

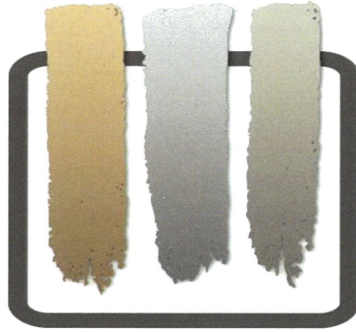


## **PRECISION COATINGS**

This latest edition of the Precision Coatings' electronic architectural product binder has been developed for architects, specification writers, designers, painting contractors, builders and property managers and all others who specify performance coatings for the commercial architectural market.

While the information contained within this document are current as of the date of publication, conditions may change that would require that some of the information contained in this document may change. For the most up-to-date information regarding Precision Coatings' products, please see are websites: [www.precisioncoatingsinc.com](http://www.precisioncoatingsinc.com) and [www.slipshield.com](http://www.slipshield.com)

November 2018



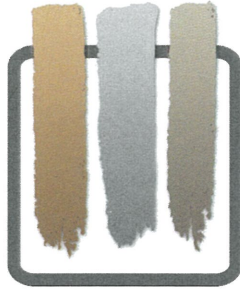
## **PRECISION COATINGS**

### **High Performance Commercial Architectural Coatings & Finishes**

- **Solid, Metallic and Pearl Finishes**
- **Relēs Clean Coating Technology**
- **Slip Resistant Floor Coatings**
- **Infra-Red Reflective Coatings**
- **Anti-Graffiti Coatings**
- **Weatherable Primers**

#### **PRECISION COATINGS**

1940 E. Trafficway, Springfield, MO 65802  
417.862.5738 fax 417.862.8874  
[www.precisioncoatingsinc.com](http://www.precisioncoatingsinc.com)



## PRECISION COATINGS

Since 1969, Precision Coatings has been manufacturing a wide variety of high performance coatings.

In the early days, its focus was on the automotive refinish, fleet and OEM markets. Since that time, Precision has expanded its market opportunities to also include a full line of extended life cycle, LEED compliant, SCAQMD 1113 VOC compliant, high grade fine finish coatings for the commercial architectural market.

Precision supplies waterborne and solvent borne polyurethanes, polysiloxane epoxies, infra-red reflective coatings, anti-graffiti coatings, slip resistant weatherable floor sealers and corrosion resistant primers for the automotive fleet, commercial architectural, institutional and recreational marine markets.

## MASTER SPECIFICATION

## COLOR CARD

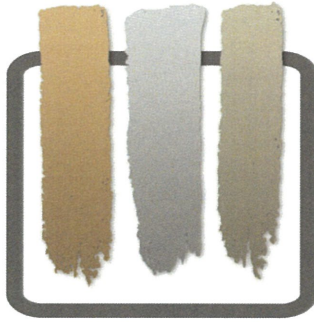
## PRODUCT DATA SHEETS

## TEST RESULTS

## TECHNICAL GUIDES

### PRECISION COATINGS

1940 E. Trafficway, Springfield, MO 65802  
888.340.6780 or 417.862.5738 fax 417.862.8874  
[www.precisioncoatingsinc.com](http://www.precisioncoatingsinc.com)



## **PRECISION COATINGS**

# **MASTER SPECIFICATION**

HIGH PERFORMANCE COMMERCIAL ARCHITECTURAL COATINGS & FINISHES

- PC3v100 Acrylic Polyurethane
- PC6 Single Component Waterborne Polyurethane

## **FIELD APPLIED URETHANES**

SOLID COLORS, METALLICS AND PEARL FINISHES

### **PRECISION COATINGS**

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**SECTION 09 96 00**

**High Performance Coatings – Field Applied Acrylic Urethanes (Solid Color, Metallic and Pearl Finishes)**

**PART 1 GENERAL**

**1.1 SECTION INCLUDES**

- A. Systems for field applied acrylic urethane coatings; solid, metallic, and pearl finishes.

**1.2 REFERENCES**

- A. ASTM D 16 - Terminology Relating to Paint, Varnish, Lacquer, and Related Products.
- B. SSPC-SP 1 - Solvent Cleaning.
- C. SSPC-SP 2 - Hand Tool Cleaning.
- D. SSPC-SP 3 - Power Tool Cleaning.
- E. SSPC-SP 6/NACE 3 - Commercial Blast Cleaning.
- F. SSPC-SP 10 - Near White Blast Cleaning
- G. SSPC-SP 13 –Concrete Surface Preparation

**1.3 DEFINITIONS**

- A. Definitions of Painting Terms: ASTM D 16, unless otherwise specified.

**1.5 SUBMITTALS**

- A. Comply with Section 01330 - Submittal Procedures.
- B. Product Data: Submit manufacturer's product data for each coating, including generic description, complete technical data, surface preparation, and application instructions.
- C. Manufacturer's Quality Assurance: Submit manufacturer's certification that coatings comply with specified requirements and are suitable for intended application.
- D. Warranty: Submit manufacturer's standard warranty.

**1.6 QUALITY ASSURANCE**

- A. Manufacturer's Qualifications:
  - 1. Manufacturer of coatings shall demonstrate a minimum of 10 years successful experience.
  - 2. Manufacturer shall supply a list of successfully completed projects of a comparable type.
  - 3. Source Responsibility: Coatings and coating application accessories shall be products of a single supplier.
- B. Applicator's Qualifications:
  - 1. Experienced in application of specified coatings for a minimum of 5 years on projects of similar size and complexity to this Work.
  - 2. Applicator's Personnel: Supervisory personnel shall be trained/experienced in the successful application of the specified coatings.
- C. Mock-ups:
  - 1. Prepare mock-ups for Architect's review and to establish requirements for substrate finish and final coating application, texture, sheen and color.
  - 2. Install coating mock-up(s) in area designated by the Architect.
  - 3. Correct areas, modify method of application and installation, or adjust finish texture as directed by the Architect to comply with the specified requirements.
  - 4. Maintain mock-up(s) accessible to serve as a standard of quality for this Section.
  - 5. Accepted mock-up(s) may remain in place.

#### **1.7 DELIVERY, STORAGE, AND HANDLING**

- A. Delivery: Deliver materials to job site in manufacturer's original, unopened containers and packaging, with labels clearly identifying:
  - 1. Coating or material name.
  - 2. Manufacturer.
  - 3. Color name and number.
  - 4. Batch or lot number.
  - 5. Date of manufacture.
  - 6. Mixing and thinning instructions.
- B. Storage:
  - 1. Store materials in a clean, dry area and within temperature range in accordance with manufacturer's instructions.
  - 2. Keep containers sealed until ready for use.
  - 3. Do not use materials beyond manufacturer's shelf life limitations.
- C. Handling: Protect materials during handling and application to prevent damage or contamination.

#### **1.8 ENVIRONMENTAL REQUIREMENTS**

- A. Weather:
  - 1. Air and Surface Temperatures: Prepare surfaces and apply and cure coatings within air and surface temperature range in accordance with manufacturer's instructions.
  - 2. Surface Temperature: Minimum of 5 degrees F (3 degrees C) above dew point.
  - 3. Relative Humidity: Prepare surfaces and apply and cure coatings within relative humidity range in accordance with manufacturer's instructions.
  - 4. Precipitation: Do not prepare surfaces or apply coatings in rain, snow, fog, or mist.
  - 5. Wind: Do not spray coatings if wind velocity is above manufacturer's limit.

- B. Ventilation: Provide ventilation during coating evaporation stage in confined or enclosed areas in accordance with manufacturer's instructions.
- C. Dust and Contaminants:
  - 1. Schedule coating work to avoid excessive dust and airborne contaminants.
  - 2. Protect work areas from excessive dust and airborne contaminants during coating application and curing.

## **PART 2 PRODUCTS**

- 2.1 Material shall be as manufactured by Precision Coatings (PCI), Springfield, MO**  
(Contact: Jim O'Keefe at 417-655-0021).

### **2.2 COATING SYSTEMS FOR STEEL - INTERIOR**

- A. Interior Acrylic Urethane Finish – Solid Color, Pearl or Metallic:

Mild Abuse Interior:

- 1. System Type: direct to metal epoxy-ketamine primer / aliphatic acrylic polyurethane topcoat.
- 2. Surface Preparation: SSPC-SP 2 and SSPC-SP3 Hand tool and power tool clean.
- 3. Primer: [PCI DTM 1300 Sanding Primer DFT 2.0 to 6.0 mils]
- 4. Finish Coat: [PCI PC3V100 Matte Finish] [PCI PC3V100 Eggshell] [PCI PC3V100 Satin Finish] [PCI PC3V100 Semi-Gloss Finish] [PCI PC3V100 High Gloss Finish]. DFT 1.0 to 3.0 mils.
- 5. Total DFT: 3.0 to 9.0 mils.
- 6. Finish Color: [ ] [As indicated on the drawings].

Or

High Abuse Interior:

- 1. System Type: direct to metal epoxy-ketamine primer / aliphatic acrylic polyurethane topcoat.
- 2. Surface Preparation: SSPC-SP 6/NACE 3.
- 3. Primer: [PCI DTM 1300 Sanding Primer DFT 2.0 to 6.0 mils]
- 4. Intermediate Coat: [PCI DTM 1300 Sanding Primer DFT 2.0 to 6.0 mils]
- 5. Finish Coat: [PCI PC3V100 Matte Finish] [PCI PC3v100 Eggshell] [PCI PC3V100 Satin Finish] [PCI PC3V100 Semi-Gloss Finish] [PCI PC3V100 High Gloss Finish]. DFT 1.0 to 3.0 mils.
- 6. Total DFT: 5.0 to 16.0 mils.
- 7. Finish Color: [ ] [As indicated on the drawings].

### **2.3 COATING SYSTEMS FOR STEEL – EXTERIOR**

- A. Exterior Acrylic Urethane Finish – Solid Color, Pearl or Metallic:

Mild Abuse Exterior:

- 1. System Type: direct to metal epoxy-ketamine primer / aliphatic acrylic polyurethane topcoat.

2. Surface Preparation: SSPC-SP 2 and SSPC-SP3 Hand tool and power tool clean.
3. Primer: [PCI DTM 1300 Sanding Primer DFT 2.0 to 6.0 mils]
4. Finish Coat: [PCI PC3V100 Matte Finish] [PCI PC3V100 Eggshell Finish] [PCI PC3V100 Satin Finish] [PCI PC3V100 Semi-Gloss Finish] [PCI PC3V100 High Gloss Finish]. DFT 1.0 to 3.0 mils.
5. Total DFT: 3.0 to 9.0 mils.
6. Finish Color: [ ] [As indicated on the drawings].

Or

High Abuse Exterior:

1. System Type: direct to metal epoxy-ketamine primer / aliphatic acrylic polyurethane topcoat.
2. Surface Preparation: SSPC-SP 6/NACE 3.
3. Primer: [PCI DTM 1300 Sanding Primer DFT 2.0 to 6.0 mils]
4. Intermediate Coat: [PCI DTM 1300 Sanding Primer DFT 2.0 to 6.0 mils]
5. Finish Coat: [PCI PC3V100 Matte Finish] [PCI PC3V100 Eggshell Finish] [PCI PC3V100 Satin Finish] [PCI PC3V100 Semi-Gloss Finish] [PCI PC3V100 High Gloss Finish]. DFT 1.0 to 3.0 mils.
6. Total DFT: 5.0 to 16.0 mils.
7. Finish Color: [ ] [As indicated on the drawings].

Coastal Zone, Corrosive Environment, High Abuse Exterior:

1. System Type: organic zinc epoxy primer / epoxy-ketamine primer / aliphatic acrylic polyurethane topcoat.
2. Surface Preparation: SSPC-SP 6/NACE 3.
3. Primer: [Zinc Rich Epoxy Primer; DFT 3.0 to 4.0 mils]
4. Intermediate Coat: [PCI DTM 1300 Sanding Primer DFT 2.0 to 6.0 mils]
5. Finish Coat: [PCI PC3V100 Matte Finish] [PCI PC3V100 Eggshell Finish] [PCI PC3V100 Satin Finish] [PCI PC3V100 Semi-Gloss Finish] [PCI PC3V100 High Gloss Finish]. DFT 1.0 to 3.0 mils.
6. Total DFT: 6.0 to 13.0 mils.
7. Finish Color: [ ] [As indicated on the drawings].

## 2.4 COATING SYSTEMS FOR CONCRETE AND MASONRY - INTERIOR

### A. Interior Acrylic Urethane Finish – Solid Color, Metallic, or Pearl:

Moderate Conditions, Physical Contact and/or Abuse, Wall and Non-Floor Areas:

1. System Type: direct to concrete epoxy-ketamine primer / aliphatic acrylic polyurethane topcoat.
2. Surface Preparation: SSPC-SP 13
3. Primer: [PCI DTM 1300 Sanding Primer DFT 4.0 to 6.0 mils]
4. Finish Coat: [PCI PC3V100 Matte Finish] [PCI PC3V100 Eggshell Finish] [PCI PC3V100 Satin Finish] [PCI PC3V100 Semi-Gloss Finish] [PCI PC3V100 High Gloss Finish]. DFT 1.0 to 3.0 mils.
5. Total DFT: 5.0 to 9.0 mils.
6. Finish Color: [ ] [As indicated on the drawings].

Or

Moderate to Severe Conditions, Physical Contact and/or Abuse, Wall and Non-Floor Areas:

1. System Type: direct to concrete epoxy-ketamine primer / aliphatic acrylic polyurethane topcoat.
2. Surface Preparation: SSPC-SP 13
3. Primer: [PCI DTM 1300 Sanding Primer DFT 4.0 to 6.0 mils]
4. Intermediate: [PCI DTM 1300 Sanding Primer DFT 4.0 to 6.0 mils]
5. Finish Coat: [PCI PC3V100 Matte Finish] [PCI PC3V100 Eggshell Finish] [PCI PC3V100 Satin Finish] [PCI PC3V100 Semi-Gloss Finish] [PCI PC3V100 High Gloss Finish]. DFT 1.0 to 3.0 mils.
6. Total DFT: 9.0 to 11.0 mils.
7. Finish Color: [ ] [As indicated on the drawings].

## **2.5 COATING SYSTEMS FOR CONCRETE AND MASONRY - EXTERIOR**

### **A. Exterior Acrylic Urethane Finish – Solid Color, Metallic or Pearl:**

Mild to Moderate Conditions, Physical Contact and/or Abuse, Wall and Non-Floor Areas:

1. System Type: direct to concrete epoxy-ketamine primer / aliphatic acrylic polyurethane topcoat.
2. Surface Preparation: SSPC-SP 13
3. Primer: [PCI DTM 1300 Sanding Primer DFT 4.0 to 6.0 mils]
4. Finish Coat: [PCI PC3V100 Matte Finish] [PCI PC3V100 Eggshell Finish] [PCI PC3V100 Satin Finish] [PCI PC3V100 Semi-Gloss Finish] [PCI PC3V100 High Gloss Finish]. DFT 1.0 to 3.0 mils.
5. Total DFT: 5.0 to 9.0 mils.
6. Finish Color: [ ] [As indicated on the drawings].

Or

Moderate to Severe Conditions, Physical Contact and/or Abuse, Wall and Non-Floor Areas:

1. System Type: direct to concrete epoxy-ketamine primer / aliphatic acrylic polyurethane topcoat.
2. Surface Preparation: SSPC-SP 13
3. Primer: [PCI DTM 1300 Sanding Primer DFT 4.0 to 6.0 mils]
4. Primer: [PCI DTM 1300 Sanding Primer DFT 4.0 to 6.0 mils]
5. Finish Coat: [PCI PC3V100 Matte Finish] [PCI PC3V100 Eggshell Finish] [PCI PC3V100 Satin Finish] [PCI PC3V100 Semi-Gloss Finish] [PCI PC3V100 High Gloss Finish]. DFT 1.0 to 3.0 mils.
6. Total DFT: 9.0 to 11.0 mils.
7. Finish Color: [ ] [As indicated on the drawings].

## **2.6 COATING SYSTEMS FOR GALVANIZED STEEL AND NONFERROUS METAL – INTERIOR / EXTERIOR**

### **A. Interior / Exterior Acrylic Urethane Finish – Solid Color, Pearl or Metallic:**

Atmospheric Interior Overhead Deck, Ductwork, Conduit, and Piping

1. System Type: direct to metal epoxy-ketamine primer / aliphatic acrylic polyurethane topcoat.
2. Surface Preparation: 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.

3. Primer: [PCI DTM 1300 Sanding Primer DFT 1.5 to 3.0 mils]
4. Finish Coat: [PCI PC3V100 Matte Finish] [PCI PC3V100 Eggshell finish] [PCI PC3V100 Satin Finish] [PCI PC3V100 Semi-Gloss Finish] [PCI PC3V100 High Gloss Finish]. DFT 1.0 to 3.0 mils.
5. Total DFT: 3.0 to 6.0 mils.
6. Finish Color: [ ] [As indicated on the drawings].

## **2.7 COATING SYSTEM FOR ENGINEERED PLASTIC – INTERIOR or EXTERIOR**

### **A. Interior / Exterior Acrylic Urethane Finish – Solid Color, Pearl or Metallic:**

1. System Type: Direct to engineered plastic epoxy-ketamine primer / aliphatic acrylic polyurethane topcoat.
2. Surface Preparation: Clean substrate with exempt cleaning solvent and lightly scuff with 220 grit sandpaper
3. Primer: [PCI DTM 1300 Sanding Primer DFT 1.5 to 3.0 mils]
4. Finish Coat: [PCI PC3V100 Matt Finish] [PCI PC3V100 Eggshell Finish] [PCI PC3V100 Satin Finish] [PCI PC3V100 Semi-Gloss Finish] [PCI PC3V100 High Gloss Finish] DFT: 1.5 to 3.0 mils.
5. Total DFT: 3.0 to 6.0 mils
6. Finish Color: { } [As indicated on the drawings]

## **2.8 COATING SYSTEM FOR GYPSUM BOARD – INTERIOR**

### **A. Interior Acrylic Urethane Finish – Solid Color, Pearl or Metallic:**

1. System Type: Direct to gypsum board epoxy-ketamine primer / aliphatic acrylic polyurethane topcoat.
2. Surface Preparation: Level 5 Drywall Finish. Remove all dust and other contaminants.
3. Primer: PCI DTM 1300 High Build Primer [DFT 2.0 to 4.0 mils] Sand in between primer coats
4. Primer: PCI DTM 1300 High Build Primer [DTM 2.0 to 4.0 mils]
5. Finish Coat: [PCI PC3V100 Matte Finish] [PCI PC3V100 Eggshell] [PCI PC3V100 Satin Finish] [PCI PC3V100 Semi-Gloss Finish] [PCI PC3V100 High Gloss Finish]. DFT 1.0 to 3.0 mils.
6. Total DFT: 3.0 to 7.0 mils.
7. Finish Color: [ ] [As indicated on the drawings]

## **2.9 COATING SYSTEM FOR MDF – INTERIOR**

### **A. Interior Acrylic Urethane Finish – Solid Color, Pearl or Metallic:**

1. Low VOC Mild Abuse Interior: Less than 100 grams per liter
2. System Type: Direct to MDF epoxy-ketamine primer / aliphatic acrylic polyurethane per liter
3. Surface Preparation: Remove dirt, dust, grease, oil, wax and other contaminants
4. Primer: PCI DTM 1300 High Build Primer [DFT 2.0 to 4.0 mils] Sand in

- between primer coats
5. Primer: PCI DTM 1300 High Build Primer [DFT 2.0 – 4.0 mils.]
  6. Finish Coat: [PCI PC3V100 Matte Finish] [PCI PC3V100 Eggshell] [PCI PC3V100 Satin Finish] [PCI PC3V100 Semi-Gloss Finish] [PCI PC3V100 100 High Gloss Finish] DFT 1.0 to 3.0 mils.
  7. Total DFT: 2.5 to 7.0 mils
  8. Finish Color: \_\_\_\_\_ [As indicated on the drawings]

## **2.10 ACCESSORIES**

- A. Coating Application Accessories:
1. Accessories required for application of specified coatings in accordance with manufacturer's instructions, including thinners.
  2. Products of coating manufacturer:
    1. [PCI 12030 Urethane Accelerator]
    2. [PCI 15000 Surface Tension Eliminator]
    3. [PCI 16050 VOC Exempt Reducer]
    4. [PCI 17000 VOC Exempt Gun Cleaner]
    5. [PCI 02150 Metal Conditioner]

## **PART 3 EXECUTION**

### **3.1 EXAMINATION**

- A. Examine areas and conditions under which coating systems are to be applied. Notify Architect of areas or conditions not acceptable. Do not begin surface preparation or application until unacceptable areas or conditions have been corrected.

### **3.2 PROTECTION OF SURFACES NOT SCHEDULED TO BE COATED**

- A. Protect surrounding areas and surfaces not scheduled to be coated from damage during surface preparation and application of coatings.
- B. Immediately remove coatings that fall on surrounding areas and surfaces not scheduled to be coated.

### **3.3 SURFACE PREPARATION OF STEEL**

- A. Prepare steel surfaces in accordance with manufacturer's instructions.
- B. Fabrication Defects:
1. Correct steel and fabrication defects revealed by surface preparation.
  2. Remove weld spatter and slag.
  3. Round sharp edges and corners of welds to a smooth contour.
  4. Smooth weld undercuts and recesses.
  5. Grind down porous welds to pinhole-free metal.
  6. Remove weld flux from surface.
- C. Ensure surfaces are dry.
- D. Remove visible oil, grease, dirt, dust, mill scale, rust, paint, oxides, corrosion products, and other foreign matter in accordance with SSPC-SP 6/NACE 3, unless otherwise

specified.

- E. Abrasive Blast-Cleaned Surfaces: Coat abrasive blast-cleaned surfaces with primer before visible rust forms on surface. Do not leave blast-cleaned surfaces uncoated for more than 8 hours.
- F. Shop Primer: Prepare shop primer to receive field coat in accordance with manufacturer's instructions.

### **3.4 SURFACE PREPARATION OF CONCRETE AND MASONRY**

- A. Prepare concrete and masonry surfaces in accordance with manufacturer's instructions, SSPC-SP 13/NACE 6, and ICRI 03732.
- B. Ensure surfaces are clean, dry, and free of oil, grease, dirt, dust, and other contaminants.
- C. Test concrete for moisture in accordance with ASTM D 4263 and F 1869.
- D. Allow concrete and mortar to cure for a minimum of 28 days before coating and determine that concrete is dry enough to coat.
- E. Level protrusions and mortar spatter.

### **3.6 SURFACE PREPARATION OF GALVANIZED STEEL AND NONFERROUS METAL**

- A. Prepare galvanized steel and nonferrous metal surfaces in accordance with manufacturer's instructions. Surface preparation recommendations will vary depending on substrate and exposure conditions.

### **3.7 SURFACE PREPARATION OF ENGINEERED PLASTIC**

- A. Ensure surfaces are clean, dry, and free of oil, grease, dirt, dust, and other contaminants.
- B. Clean substrate with exempt cleaning solvent and lightly scuff with 220 grit sandpaper.

### **3.8 SURFACE PREPARATION OF GYPSUM BOARD**

- A. Prepare gypsum board surfaces in accordance with Level 5 Drywall Finish.
- B. Ensure surfaces are clean, dry, and free of oil, grease, dirt, dust, and other contaminants.
- C. Sand joint compound smooth and feather the edge to match.
- D. Avoid heavy sanding of adjacent gypsum board surfaces, which will raise nap of paper covering.
- E. Do not apply putty, patching pencils, caulking, or masking tape to gypsum board surfaces to be painted.
- F. Lightly scuff-sand tape joints after priming to remove raised paper nap. Do not sand through primer

### **3.9 SURFACE PREPARATION OF MDF**

- A. Ensure surfaces are clean, dry, and free of oil, grease, dirt, dust, and other contaminants.
- B. Scuff sand the substrate with 150 to 220 grit sandpaper to achieve a slight etch.

#### **4.0 APPLICATION**

- A. Apply coatings in accordance with manufacturer's instructions.
- B. Mix and thin coatings, including multi-component materials, in accordance with manufacturer's instructions.
- C. Keep containers closed when not in use to avoid contamination.
- D. Do not use mixed coatings beyond pot life limits.
- E. Use application equipment, tools, pressure settings, and techniques in accordance with manufacturer's instructions.
- F. Uniformly apply coatings at spreading rate required to achieve specified DFT.
- G. Apply coatings to be free of film characteristics or defects that would adversely affect performance or appearance of coating systems.
- H. Stripe paint with brush critical locations on steel such as welds, corners, and edges using specified primer.

#### **4.1 REPAIR**

- A. Materials and Surfaces Not Scheduled To Be Coated: Repair or replace damaged materials and surfaces not scheduled to be coated.
- B. Damaged Coatings: Touch-up or repair damaged coatings. Touch-up of minor damage shall be acceptable where result is not visibly different from adjacent surfaces. Recoat entire surface where touch-up result is visibly different, either in sheen, texture, or color.
- C. Coating Defects: Repair in accordance with manufacturer's instructions coatings that exhibit film characteristics or defects that would adversely affect performance or appearance of coating systems.

#### **4.4 CLEANING**

- A. Remove temporary coverings and protection of surrounding areas and surfaces.

#### **4.5 PROTECTION OF COATING SYSTEMS**

- A. Protect surfaces of coating systems from damage during construction.

**END OF SECTION**

**SECTION 09 96 00**

**High Performance Coatings – Field Applied Waterborne Urethanes (Solid Color, Metallic and Pearl Finishes)**

**PART 1 GENERAL**

**1.1 SECTION INCLUDES**

- A. Systems for field applied waterborne urethane coatings; solid, metallic, and pearl finishes.

**1.2 REFERENCES**

- A. ASTM D 16 - Terminology Relating to Paint, Varnish, Lacquer, and Related Products.
- B. SSPC-SP 1 - Solvent Cleaning.
- C. SSPC-SP 2 - Hand Tool Cleaning.
- D. SSPC-SP 3 - Power Tool Cleaning.
- E. SSPC-SP 6/NACE 3 - Commercial Blast Cleaning.
- F. SSPC-SP 10 - Near White Blast Cleaning
- G. SSPC-SP 13 –Concrete Surface Preparation

**1.3 DEFINITIONS**

- A. Definitions of Painting Terms: ASTM D 16, unless otherwise specified.

**1.5 SUBMITTALS**

- A. Comply with Section 01330 - Submittal Procedures.
- B. Product Data: Submit manufacturer's product data for each coating, including generic description, complete technical data, surface preparation, and application instructions.
- C. Manufacturer's Quality Assurance: Submit manufacturer's certification that coatings comply with specified requirements and are suitable for intended application.
- D. Warranty: Submit manufacturer's standard warranty.

## **1.6 QUALITY ASSURANCE**

- A. Manufacturer's Qualifications:
  - 1. Manufacturer of coatings shall demonstrate a minimum of 10 years successful experience.
  - 2. Manufacturer shall supply a list of successfully completed projects of a comparable type.
  - 3. Source Responsibility: Coatings and coating application accessories shall be products of a single supplier.
- B. Applicator's Qualifications:
  - 1. Experienced in application of specified coatings for a minimum of 5 years on projects of similar size and complexity to this Work.
  - 2. Applicator's Personnel: Supervisory personnel shall be trained/experienced in the successful application of the specified coatings.
- C. Mock-ups:
  - 1. Prepare mock-ups for Architect's review and to establish requirements for substrate finish and final coating application, texture, sheen and color.
  - 2. Install coating mock-up(s) in area designated by the Architect.
  - 3. Correct areas, modify method of application and installation, or adjust finish texture as directed by the Architect to comply with the specified requirements.
  - 4. Maintain mock-up(s) accessible to serve as a standard of quality for this Section.
  - 5. Accepted mock-up(s) may remain in place.

## **1.7 DELIVERY, STORAGE, AND HANDLING**

- A. Delivery: Deliver materials to job site in manufacturer's original, unopened containers and packaging, with labels clearly identifying:
  - 1. Coating or material name.
  - 2. Manufacturer.
  - 3. Color name and number.
  - 4. Batch or lot number.
  - 5. Date of manufacture.
  - 6. Mixing and thinning instructions.
- B. Storage:
  - 1. Store materials in a clean, dry area and within temperature range in accordance with manufacturer's instructions.
  - 2. Keep containers sealed until ready for use.
  - 3. Do not use materials beyond manufacturer's shelf life limitations.
- C. Handling: Protect materials during handling and application to prevent damage or contamination.

## **1.8 ENVIRONMENTAL REQUIREMENTS**

- A. Weather:
  - 1. Air and Surface Temperatures: Prepare surfaces and apply and cure coatings within air and surface temperature range in accordance with manufacturer's instructions.
  - 2. Surface Temperature: Minimum of 5 degrees F (3 degrees C) above dew point.
  - 3. Relative Humidity: Prepare surfaces and apply and cure coatings within relative humidity range in accordance with manufacturer's instructions.

4. Precipitation: Do not prepare surfaces or apply coatings in rain, snow, fog, or mist.
  5. Wind: Do not spray coatings if wind velocity is above manufacturer's limit.
- B. Ventilation: Provide ventilation during coating evaporation stage in confined or enclosed areas in accordance with manufacturer's instructions.
- C. Dust and Contaminants:
1. Schedule coating work to avoid excessive dust and airborne contaminants.
  2. Protect work areas from excessive dust and airborne contaminants during coating application and curing.

## **PART 2 PRODUCTS**

- 2.1 Material shall be as manufactured by Precision Coatings (PCI), Springfield, MO**  
(Contact: Jim O'Keefe at 417-655-0021).

### **2.2 COATING SYSTEMS FOR STEEL - INTERIOR**

- A. Interior Waterborne Urethane Finish – Solid Color, Pearl or Metallic :
1. System Type: direct to metal waterborne bonding primer / waterborne polyurethane topcoat.
  2. Surface Preparation: SSPC-SP 2 and SSPC-SP3 Hand tool and power tool clean.
  3. Primer: [PCI DTM 1600 Waterborne Bonding Primer DFT 1.0 to 3.0 mils]
  4. Finish Coat: [PCI PC6V100 Matte Finish] [PCI PC6V100 Eggshell] [PCI PC6V100 Satin Finish] [PCI PC6V100 Semi-Gloss Finish] [PCI PC6V100 High Gloss Finish]. DFT 1.0 to 3.0 mils.
  5. Total DFT: 2.0 to 6.0 mils.
  6. Finish Color: [ ] [As indicated on the drawings].

### **2.3 COATING SYSTEMS FOR STEEL – EXTERIOR**

- A. Exterior Waterborne Urethane Finish – Solid Color, Pearl or Metallic:
1. System Type: direct to metal waterborne bonding primer / waterborne polyurethane topcoat.
  2. Surface Preparation: SSPC-SP 2 and SSPC-SP3 Hand tool and power tool clean.
  3. Primer: [PCI DTM 1600 Waterborne Bonding Primer DFT 1.0 to 3.0 mils]
  4. Finish Coat: [PCI PC6V100 Matte Finish] [PCI PC6V100 Eggshell Finish] [PCI PC6V100 Satin Finish] [PCI PC6V100 Semi-Gloss Finish] [PCI PC6V100 High Gloss Finish]. DFT 1.0 to 3.0 mils.
  5. Total DFT: 2.0 to 6.0 mils.
  6. Finish Color: [ ] [As indicated on the drawings].

### **2.4 COATING SYSTEMS FOR CONCRETE AND MASONRY - INTERIOR**

- A. Interior Waterborne Urethane Finish – Solid Color, Metallic, or Pearl:

Moderate Conditions, Physical Contact and/or Abuse, Wall and Non-Floor Areas:

1. System Type: direct to concrete waterborne bonding primer / waterborne

- polyurethane topcoat.
- 2. Surface Preparation: SSPC-SP 13
- 3. Primer: [PCI DTM 1600 Waterborne Bonding Primer DFT 4.0 to 6.0 mils]
- 4. Finish Coat: [PCI PC6V100 Matte Finish] [PCI PC6V100 Eggshell Finish] [PCI PC6V100 Satin Finish] [PCI PC6V100 Semi-Gloss Finish] [PCI PC6V100 High Gloss Finish]. DFT 1.0 to 3.0 mils.
- 5. Total DFT: 5.0 to 9.0 mils.
- 6. Finish Color: [ ] [As indicated on the drawings].

## 2.5 COATING SYSTEMS FOR CONCRETE AND MASONRY - EXTERIOR

### A. Exterior Waterborne Urethane Finish – Solid Color, Metallic or Pearl:

- 1. System Type: direct to concrete waterborne bonding primer / waterborne polyurethane topcoat.
- 2. Surface Preparation: SSPC-SP 13
- 3. Primer: [PCI DTM 1600 Waterborne Bonding Primer DFT 1.0 to 3.0 mils]
- 4. Finish Coat: [PCI PC6V100 Matte Finish] [PCI PC6V100 Eggshell Finish] [PCI PC6V100 Satin Finish] [PCI PC6V100 Semi-Gloss Finish] [PCI PC6V100 High Gloss Finish]. DFT 1.0 to 3.0 mils.
- 5. Total DFT: 2.0 to 6.0 mils.
- 6. Finish Color: [ ] [As indicated on the drawings].

## 2.6 COATING SYSTEMS FOR GALVANIZED STEEL AND NONFERROUS METAL – INTERIOR or EXTERIOR

### A. Interior / Exterior Waterborne Urethane Finish – Solid Color, Pearl or Metallic:

Atmospheric Interior Overhead Deck, Ductwork, Conduit, and Piping

- 1. System Type: direct to metal waterborne bonding primer / waterborne polyurethane topcoat.
- 2. Surface Preparation: 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.
- 3. Primer: [PCI DTM 1600 Waterborne Bonding Primer DFT 1.0 to 3.0 mils]
- 4. Finish Coat: [PCI PC6V100 Matte Finish] [PCI PC6V100 Eggshell finish] [PCI PC6V100 Satin Finish] [PCI PC6V100 Semi-Gloss Finish] [PCI PC6V100 High Gloss Finish]. DFT 1.0 to 3.0 mils.
- 5. Total DFT: 2.0 to 6.0 mils.
- 6. Finish Color: [ ] [As indicated on the drawings].

## 2.7 COATING SYSTEM FOR ENGINEERED PLASTIC – INTERIOR or EXTERIOR

### A. Interior / Exterior Waterborne Urethane Finish – Solid Color, Pearl or Metallic:

- 1. System Type: Direct to engineered plastic waterborne bonding primer / waterborne polyurethane topcoat.

2. Surface Preparation: Clean substrate with exempt cleaning solvent and lightly scuff with 220 grit sandpaper
3. Primer: [PCI DTM 1600 Waterborne Bonding Primer DFT 1.0 to 3.0 mils]
4. Finish Coat: [PCI PC6V100 Matt Finish] [PCI PC6V100 Eggshell Finish] [PCI PC6V100 Satin Finish] [PCI PC6V100 Semi-Gloss Finish] [PCI PC6V100 High Gloss Finish] DFT: 1.0 to 3.0 mils.
5. Total DFT: 2.0 to 6.0 mils
6. Finish Color: { \_\_\_\_\_ } [As indicated on the drawings]

## 2.8 COATING SYSTEMS FOR GYPSUM BOARD – INTERIOR

### A. Interior Waterborne Urethane Finish – Solid Color, Pearl or Metallic:

1. System Type: Direct to gypsum board waterborne bonding primer / waterborne polyurethane topcoat.
2. Surface Preparation: Level 5 Drywall Finish. Remove all dust and other contaminants.
3. Primer: PCI DTM 1600 Waterborne Bonding Primer [DFT 1.0 to 3.0 mils] Sand in between primer coats.
4. Primer: PCI DTM 1600 Waterborne Bonding Primer [DTM 1.0 to 3.0 mils]
5. Finish Coat: [PCI PC6V100 Matte Finish] [PCI PC6V100 Eggshell] [PCI PC6V100 Satin Finish] [PCI PC6V100 Semi-Gloss Finish] [PCI PC6V100 High Gloss Finish]. DFT 1.0 to 3.0 mils.
6. Total DFT: 3.0 to 9.0 mils.
7. Finish Color: [ \_\_\_\_\_ ] [As indicated on the drawings]

## 2.9 COATING SYSTEM FOR MDF – INTERIOR

### A. Interior Waterborne Urethane Finish – Solid Color, Pearl or Metallic:

1. Low VOC Mild Abuse Interior: Less than 100 grams per liter
2. System Type: Direct to MDF waterborne bonding primer / waterborne polyurethane topcoat
3. Surface Preparation: Remove dirt, dust, grease, oil, wax and other contaminants.
4. Primer: PCI DTM 1600 Waterborne Bonding Primer [DFT 1.0 – 3.0 mils.] Sand in between primer coats.
5. Primer: PCI DTM 1600 Waterborne Bonding Primer [DFT 1.0 – 3.0 mils]
6. Finish Coat: [PCI PC6V100 Matte Finish] [PCI PC6V100 Eggshell] [PCI PC6V100 Satin Finish] [PCI PC6V100 Semi-Gloss Finish] [PCI PC3V100 100 High Gloss Finish]. DFT 1.0 to 3.0 mils.
7. Total DFT: 3.0 to 9.0 mils
8. Finish Color: [ \_\_\_\_\_ ] [As indicated on the drawings]

## 2.10 ACCESSORIES

### A. Coating Application Accessories:

1. Accessories required for application of specified coatings in accordance with manufacturer's instructions.

2. Products of coating manufacturer:
  1. [PCI 02150 Metal Conditioner]

## **PART 3 EXECUTION**

### **3.1 EXAMINATION**

- A. Examine areas and conditions under which coating systems are to be applied. Notify Architect of areas or conditions not acceptable. Do not begin surface preparation or application until unacceptable areas or conditions have been corrected.

### **3.2 PROTECTION OF SURFACES NOT SCHEDULED TO BE COATED**

- A. Protect surrounding areas and surfaces not scheduled to be coated from damage during surface preparation and application of coatings.
- B. Immediately remove coatings that fall on surrounding areas and surfaces not scheduled to be coated.

### **3.3 SURFACE PREPARATION OF STEEL**

- A. Prepare steel surfaces in accordance with manufacturer's instructions.
- B. Fabrication Defects:
  1. Correct steel and fabrication defects revealed by surface preparation.
  2. Remove weld spatter and slag.
  3. Round sharp edges and corners of welds to a smooth contour.
  4. Smooth weld undercuts and recesses.
  5. Grind down porous welds to pinhole-free metal.
  6. Remove weld flux from surface.
- C. Ensure surfaces are dry.
- D. Remove visible oil, grease, dirt, dust, mill scale, rust, paint, oxides, corrosion products, and other foreign matter in accordance with SSPC-SP 6/NACE 3, unless otherwise specified.
- E. Abrasive Blast-Cleaned Surfaces: Coat abrasive blast-cleaned surfaces with primer before visible rust forms on surface. Do not leave blast-cleaned surfaces uncoated for more than 8 hours.
- F. Shop Primer: Prepare shop primer to receive field coat in accordance with manufacturer's instructions.

### **3.4 SURFACE PREPARATION OF CONCRETE AND MASONRY**

- A. Prepare concrete and masonry surfaces in accordance with manufacturer's instructions, SSPC-SP 13/NACE 6, and ICRI 03732.
- B. Ensure surfaces are clean, dry, and free of oil, grease, dirt, dust, and other contaminants.

- C. Test concrete for moisture in accordance with ASTM D 4263 and F 1869.
- D. Allow concrete and mortar to cure for a minimum of 28 days before coating and determine that concrete is dry enough to coat.
- E. Level protrusions and mortar spatter.

### **3.6 SURFACE PREPARATION OF GALVANIZED STEEL AND NONFERROUS METAL**

- A. Prepare galvanized steel and nonferrous metal surfaces in accordance with manufacturer's instructions. Surface preparation recommendations will vary depending on substrate and exposure conditions.

### **3.7 SURFACE PREPARATION OF ENGINEERED PLASTIC**

- A. Ensure surfaces are clean, dry, and free of oil, grease, dirt, dust, and other contaminants.
- B. Clean substrate with exempt cleaning solvent and lightly scuff with 220 grit sandpaper.

### **3.8 SURFACE PREPARATION OF GYPSUM BOARD**

- A. Prepare gypsum board surfaces in accordance with Level 5 Drywall Finish.
- B. Ensure surfaces are clean, dry, and free of oil, grease, dirt, dust, and other contaminants.
- C. Sand joint compound smooth and feather the edge to match.
- D. Avoid heavy sanding of adjacent gypsum board surfaces, which will raise nap of paper covering.
- E. Do not apply putty, patching pencils, caulking, or masking tape to gypsum board surfaces to be painted.
- F. Lightly scuff-sand tape joints after priming to remove raised paper nap. Do not sand through primer

### **3.9 SURFACE PREPARATION OF MDF**

- A. Ensure surfaces are clean, dry, and free of oil, grease, dirt, dust, and other contaminants.
- B. Scuff sand the substrate with 150 to 220 grit sandpaper to achieve a slight etch.

### **4.0 APPLICATION**

- A. Apply coatings in accordance with manufacturer's instructions.
- B. Mix and thin coatings, including multi-component materials, in accordance with manufacturer's instructions.
- C. Keep containers closed when not in use to avoid contamination.
- D. Do not use mixed coatings beyond pot life limits.

- E. Use application equipment, tools, pressure settings, and techniques in accordance with manufacturer's instructions.
- F. Uniformly apply coatings at spreading rate required to achieve specified DFT.
- G. Apply coatings to be free of film characteristics or defects that would adversely affect performance or appearance of coating systems.
- H. Stripe paint with brush critical locations on steel such as welds, corners, and edges using specified primer.

#### **4.1 REPAIR**

- A. Materials and Surfaces Not Scheduled To Be Coated: Repair or replace damaged materials and surfaces not scheduled to be coated.
- B. Damaged Coatings: Touch-up or repair damaged coatings. Touch-up of minor damage shall be acceptable where result is not visibly different from adjacent surfaces. Recoat entire surface where touch-up result is visibly different, either in sheen, texture, or color.
- C. Coating Defects: Repair in accordance with manufacturer's instructions coatings that exhibit film characteristics or defects that would adversely affect performance or appearance of coating systems.

#### **4.4 CLEANING**

- A. Remove temporary coverings and protection of surrounding areas and surfaces.

#### **4.5 PROTECTION OF COATING SYSTEMS**

- A. Protect surfaces of coating systems from damage during construction.

**END OF SECTION**



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**COLOR CARD**

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# PRECISION COATINGS

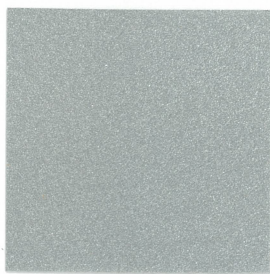
Performance Coatings for the  
Commercial Architectural Market

**COLOR CHART**

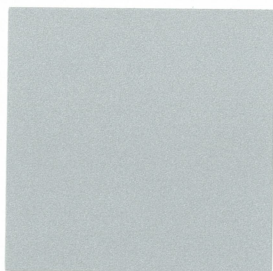


# Precision Coatings Standard Colors

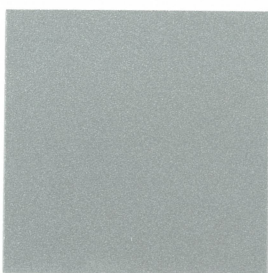
## Metallic and Pearl Colors



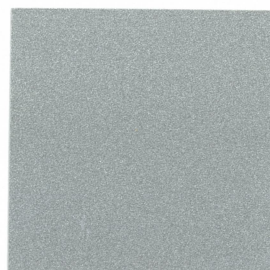
Silver Mist **M**  
2280



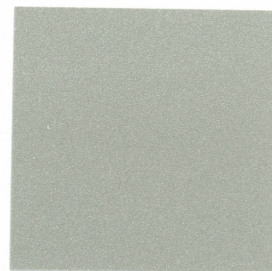
Silver Mist **P**  
2720



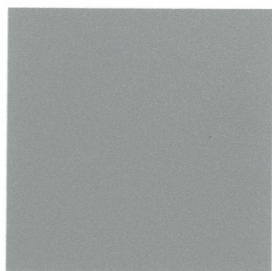
Chrome Silver **M**  
2274



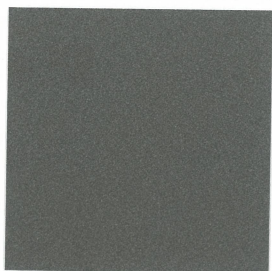
Platinum **M**  
2690



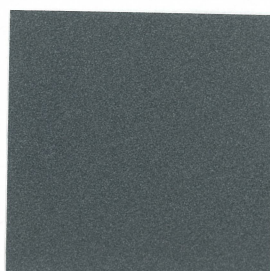
Crystal **P**  
3870



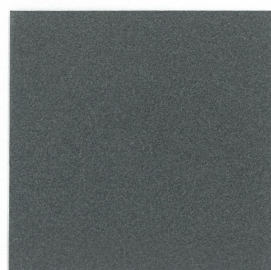
Silver Frost **M**  
2300



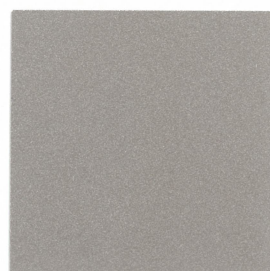
Gray **M**  
2480



Smoke Gray **M**  
2400



Pewter **M**  
2370



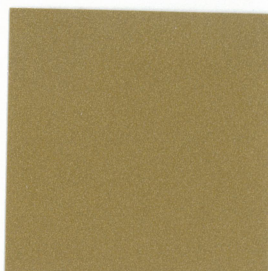
Champagne **P**  
4480



Treasure Gold **M**  
4520



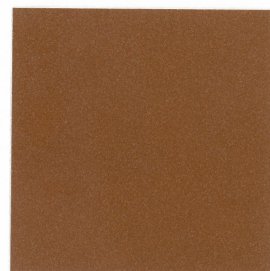
Wheat **M**  
4470



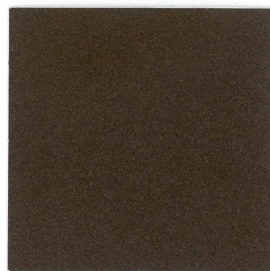
Casino Gold **M**  
4530



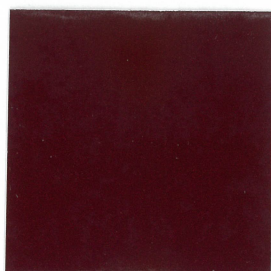
Bronze **M**  
4100



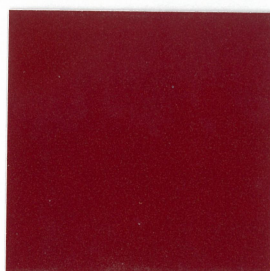
Aged Copper **M**  
9006



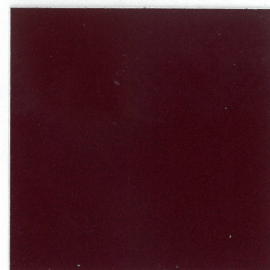
Chocolate Brown **M**  
4340



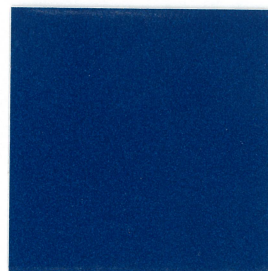
Inferno Maroon **M**  
9009



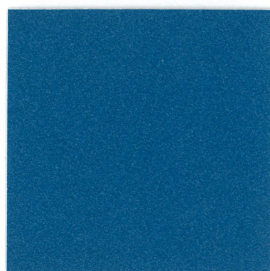
Candy Apple Red **M**  
9250



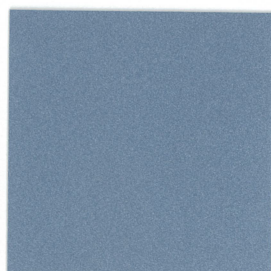
Ruby Red **M**  
9530



Viper GTS Blue **P**  
6490



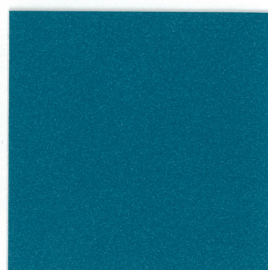
Electric Blue **M**  
6012



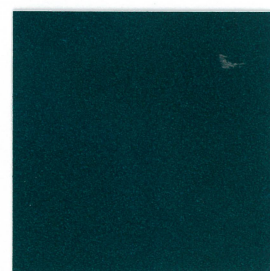
Light Sapphire **M**  
6190



Turquoise **M**  
6480



Aquamarine **M**  
5004



Midnight Teal **M**  
5013

**M** refers to Metallic and **P** refers to Pearl.

Color chips are made to match paint colors as closely as possible. They are only representative of the colors and cannot be considered as color standards.

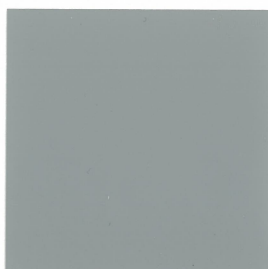
## Solid Colors



Fleet White  
3130



Glamour White  
3760



Titanium Gray  
2770



Shadow Beige  
4070



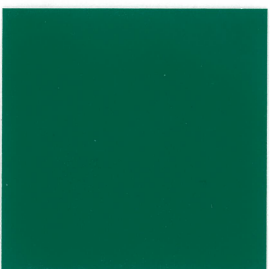
Desert Brown  
4012



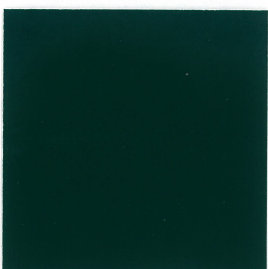
Sable Brown  
4511



Oxford Brown  
4512



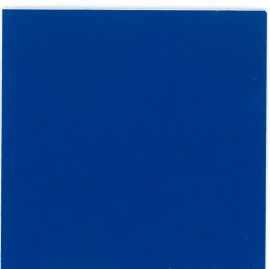
Meadows Green  
5089



Dark Green  
5080



Sky Blue  
6011



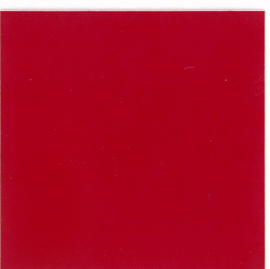
Brilliant Blue  
6095



Dark Navy Blue  
6030



Victory Red  
9040



Viper Red  
9030

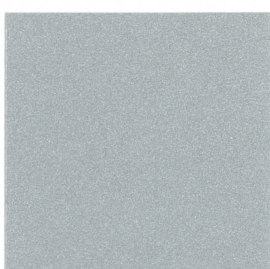


Yellow Flash  
7062

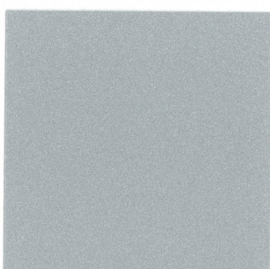
## Sheen Levels\*



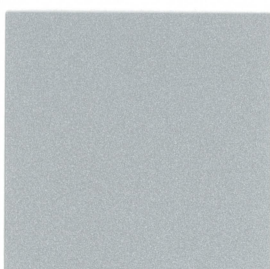
Silver Mist **M**  
*Gloss: 90+ @ 60°*



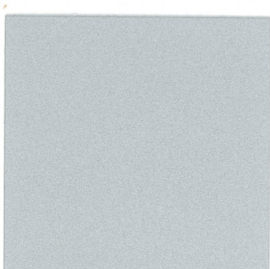
Silver Mist **M**  
*Semi Gloss: 65± 5 @ 60°*



Silver Mist **M**  
*Satin: 30± 5 @ 60°*



Silver Mist **M**  
*Eggshell: 15± 5 @ 60°*



Silver Mist **M**  
*Matte/Flat: 3 - 7 @ 60°*

In addition to the colors shown, custom color matching is available as well as all standard Safety Colors.

*Not all products are available in all sheens. The gloss sheen for PC6 Waterborne Polyurethane is 75+ @ 60°.*

**Precision Coatings** offers a wide variety of colors and finishes including metallics, pearls, solids, and clears in the broad range of products listed below. These colors and finishes are offered across the full spectrum of sheens including gloss, semi-gloss, satin, eggshell sheen and matte/flat.

**PC3 Acrylic Aliphatic Polyurethane Finish** is a two-component, fine-finish, acrylic aliphatic polyurethane that provides excellent color retention and durability on interior and exterior field applied substrates. It is available in a variety of VOC levels, including our very popular PC3v100 that is less than 25 g/l when mixed. PC3 in clear is frequently used for high quality and robust interior wood finishing.

**PC4 Acrylic Aliphatic Polyurethane Finish** is a two-component, fine-finish, acrylic aliphatic polyurethane version of PC3 formulated for the shop & OEM market.

**PC5 Siloxane Finish** is a two-component, fine-finish, non-isocyanate, polysiloxane that is less than 100 g/l VOC. PC5 is easily cleaned and provides an anti-graffiti surface. Available in gloss and semi-gloss sheens.

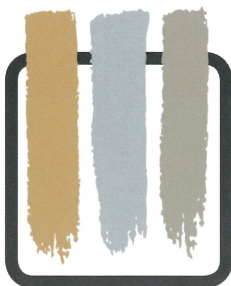
**PC6 Waterborne Polyurethane Finish** is a single-component, fine-finish, low odor, low VOC waterborne polyurethane that may be used for both interior and exterior applications and has excellent abrasion, chemical and corrosion resistance. No clear coat is required.

**Reflect 3000 Infrared Reflective Aliphatic Polyurethane Finish** is a two-component, fine-finish, low VOC, infrared reflective, acrylic aliphatic polyurethane. Reflect 3000 utilizes inorganic infrared reflective pigments to reduce heat absorption on roofs and walls.

**SlipShield® Floor Sealer** is a two-component, slip-resistant, weatherable polysiloxane floor sealer that can improve the coefficient of friction on a variety of substrates including ceramic tile, polished stone, polished concrete and previously coated floors. SlipShield is ideal for floors in commercial and institutional environments including stadiums, arenas, theme parks, retail, schools and manufacturing.

**DTM 1300, DTM 3000 and DTM 1600 Primers** are corrosion resistant, weatherable primers that are ultra-violet resistant (a requirement for longevity and performance when used under translucent finishes such as pearl and metallic coatings). DTM 1300 is a two-component, surface tolerant, high-build modified epoxy primer. DTM 3000 is a two-component, fast-dry, aliphatic polyurethane primer. DTM1600 is a low odor, single-component waterborne polyurethane bonding primer.

*Precision Coatings is a manufacturer of extended life-cycle, low VOC performance coatings and sealers for the commercial architectural market, OEM market, automotive aftermarket and the recreational marine market. Precision combines high quality automotive pigments and high cross-link density solvent and waterborne resin systems to produce finishes that offer outstanding aesthetics and optical effects and durability with corrosion resistance for both commercial exterior and interior environments.*



**PRECISION COATINGS**

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# PRECISION COATINGS

## PRODUCT DATA SHEETS

### FINISH COATS

- PC3v100 Acrylic Polyurethane – Top Coat
- PC3v100 Acrylic Polyurethane – Clear Coat
- PC3v100 Acrylic Polyurethane – Anti-Graffiti Clear Coat
- PC4 Acrylic Polyurethane Top Coat & Clear Coat
- PC5 Siloxane
- PC6 Waterborne Urethane
- EeZeClean Dry Erase Coatings
- Relēs – Clean Coating Technology
- Reflect 3000 – Infra-Red Reflective Finish Coat
- SlipShield - Slip Resistant Sealer

### CORROSION RESISTANT PRIMERS

- DTM 1300 Surface Tolerant Weatherable Epoxy
- DTM 1400 Weatherable Non-Sanding Epoxy Primer
- DTM 1600 Waterborne Urethane Bonding Primer
- DTM 3000 Polyurethane Primer

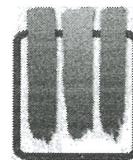
### SUPPORTING PRODUCTS

- 2150 Metal Conditioner
- 5010 SlipShield Aggregate
- 12030 Urethane Accelerator
- 15000 Fisheye Eliminator
- 16050 VOC Exempt Reducer
- 17000 Gun Cleaner

### PRECISION COATINGS

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## Technical Product Data



### **PC3v100 Series** **Acrylic Polyurethane Topcoat**

**PRECISION COATINGS**

#### **DESCRIPTION**

Aliphatic polyurethane  
Interior and exterior surfaces  
Field and shop application  
Low VOC  
USGBC LEED Version 4 Compliant

Gloss, semi-gloss, satin, eggshell, matte  
Metallic, iridescent (pearl) and solid color  
Chemical resistant  
Superior weathering and durability  
Anti-graffiti formulation available

#### **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)
REDUCERS	optional: use PCI's 16050 VOC Exempt Reducer
FLASH POINT	79° F, 26° C
MIX RATIO	3:1 (3 parts PC3v100 : 1 part PC-03 Activator)
RECOMMENDED DRY FILM THICKNESS	1.0 mils to 3.0 mils
THEORETICAL COVERAGE	609 – 203 sq ft at recommended DFT (no loss)

#### **SURFACE PREPARATION**

Best results are achieved when PC3 Topcoat is applied over a two-component primer such as Precision's DTM 1300 High Build Primer. DTM 1300 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. 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. Precision's 02150 Metal Conditioner may be used to clean and treat steel substrates to eliminate oil, soap film, grease, and flash rusting.

**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.

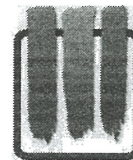
**Concrete, Masonry, MDF, Drywall** – Surface must be clean, dry and free of any dirt, dust, grease, oil, wax, mildew, disintegrated or chalky materials or other contaminants. PC3 is not recommended for floors.

**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.

#### **PRECISION COATINGS**

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## Technical Product Data



### PC3 Series Acrylic Polyurethane Topcoat

PRECISION COATINGS

#### INSTRUCTIONS – MIX RATIO

Stir or shake each container before mixing together. Mix thoroughly 3 parts PC3 Acrylic Polyurethane Topcoat 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° Fahrenheit and no more than 95° Fahrenheit. 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 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 Acrylic Polyurethane Topcoat may be air dried or force dried

Dry times @ 70°F (21°C) and 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 system.

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

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

11-2016

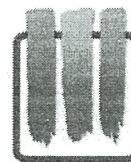
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## Technical Product Data



### PC3v100 ANTI-GRAFFITI CLEAR COAT

Acrylic Polyurethane Reacted Siloxane

PRECISION COATINGS

#### DESCRIPTION

Aliphatic polyurethane  
Reacted siloxane anti-graffiti clear coat  
Superior graffiti repelling properties  
Easy removal of graffiti applications  
Excellent protection for masonry, wood and metal substrates  
Field and shop application

Ultra low VOC  
Superior weathering and durability  
Chemical resistant  
Applied over a variety of painted and unpainted surfaces  
Gloss, semi-gloss, satin, eggshell, matte  
LEED NC 2009 compliant

#### 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)
REQUIRED DRY FILM THICKNESS	1.0 mils to 3.0 mils
THEORETICAL COVERAGE	561 – 187 sq ft at recommended DFT (no loss)

#### SURFACE PREPARATION

PC3v100 Anti-Graffiti Clear Coat may be applied over properly prepared painted and unpainted substrates including steel, aluminum, galvanizing, decorative metals such as copper and brass, concrete, masonry block, and interior wood. Recommended preparation is as follows:

**Steel, Brass, Copper** – 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.

**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.

**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.

**Wood** – 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.

**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.

**PC3 Topcoat** – PC3v100 Anti-Graffiti Clear Coat may be applied directly over a variety of painted surfaces including PC3 Acrylic Polyurethane Topcoat. In all cases, it is recommended that a crosshatch test be performed to insure inter-coat adhesion and compatibility. When applying PC3 Top Coat allow topcoat to flash 20 minutes before applying PC3 Anti-Graffiti Clear Coat. After 24 hours, scuff sanding or a light abrasion may be required on the PC3 Acrylic Polyurethane Topcoat before clear coating. Use 320 grit paper or finer.

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## Technical Product Data



### **PC3v100 Anti-Graffiti Clear Coat**

**Acrylic Polyurethane Reacted Siloxane**

**PRECISION COATINGS**

#### **INSTRUCTIONS – MIX RATIO**

Stir or shake thoroughly to ensure uniform mixture. Mix 3 parts PC3 Acrylic Polyurethane Anti-Graffiti Clear Coat with 1 part PC-03 Polyurethane Activator.

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

**For faster cure times**, add up to 8 oz of PCI's 12030 Urethane Accelerator per activated gallon of clear coat.

**For fisheyes or other related surface defects**, add 1 oz of PCI's Fisheye Remover, #15000, per activated gallon of clear coat.

#### **APPLICATION**

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

**Application:** Apply using 40-65 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. Required film thickness is 1.0 to 3.0 mils DFT.

#### **GRAFFITI REMOVAL**

Graffiti may be removed with soap and warm water, commercially available removers such as Krud Kutter Graffiti Remover or acetone without damage to the clear coat finish.

#### **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

#### **DRY TIMES**

PC3 Acrylic Polyurethane Anti-Graffiti Clear Coat may be air dried or force dried

##### Dry times @ 70°F (21°C) and 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.
Graffiti Resistant:	72 hours following application.

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## Technical Product Data



### **PC3v100 Anti-Graffiti Clear Coat**

**Acrylic Polyurethane Reacted Siloxane**

**PRECISION COATINGS**

#### **CLEAN UP**

Clean all spray equipment immediately after use. Acetone may be used to clean application equipment. PCI's 17000 Gun Cleaner is a VOC exempt cleaner and is recommended for cleaning application equipment used to apply the PC3v100 system.

#### **LIMITATIONS**

Protect installed coating from rain, freezing, and continuous high humidity until completely dry. Do not apply in freezing conditions or if rain is imminent. Do not apply if elevated levels of water vapor transmission may exist behind the coating following application. At water vapor transmission levels greater than 4 perms, blistering or bubbles may occur. Do not use below grade, on horizontal surfaces or in areas of ponding water.

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

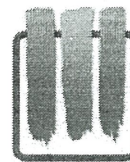
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## Technical Product Data



### **PC3v100 Anti-Graffiti Solid Color**

**Acrylic Polyurethane Reacted Siloxane**

**PRECISION COATINGS**

#### **DESCRIPTION**

Aliphatic polyurethane  
Reacted siloxane anti-graffiti top coat  
Superior graffiti repelling properties  
Easy removal of graffiti applications  
Excellent protection for masonry, wood and  
Metal substrates  
Field and shop application

Ultra-low VOC  
LEED NC 2009 compliant  
Gloss, semi-gloss, satin, eggshell, matte  
Metallic, iridescent (pearl) and solid color  
Chemical resistant  
Superior weathering and durability

#### **TECHNICAL DATA**

% SOLIDS by volume	34% as packaged, 38% as applied
COATING VOC (as packaged)	Less than 50 g/l (less water & exempt compounds)
COATING VOC (as applied)	Less than 50 g/l (less water & exempt compounds)
COMPONENTS	PC3v100 (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 PC3v100: 1 part PC-03 Activator)
RECOMMENDED DRY FILM THICKNESS	1.0 mils to 3.0 mils
THEORETICAL COVERAGE	609 – 203 sq ft at recommended DFT (no loss)

#### **SURFACE PREPARATION**

Best results are achieved when PC3v100 Anti-Graffiti Solid Color is applied over a two component primer such as Precision's DTM 1300 High Build Primer. DTM 1300 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, compatibility, 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. 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. Precision's 02150 Metal Conditioner may be used to clean and treat steel substrates to eliminate oil, soap film, grease, and flash rusting.

**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.

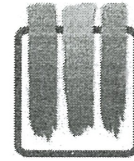
**Concrete, Masonry, MDF, Drywall** – Surface must be clean, dry and free of any dirt, dust, grease, oil, wax, mildew, disintegrated or chalky materials or other contaminants. PC3 is not recommended for floors.

**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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## Technical Product Data



### **PC3v100 Anti-Graffiti Solid Color**

**Acrylic Polyurethane Reacted Siloxane**

**PRECISION COATINGS**

#### **INSTRUCTIONS – MIX RATIO**

Stir or shake each container before mixing together. Mix thoroughly 3 parts PC3v100 Anti-Graffiti Solid Color 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° Fahrenheit and no more than 95° Fahrenheit. 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 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."

#### **GRAFFITI REMOVAL**

Graffiti may be removed with soap and water, commercially available removers such as Krud Kutter Graffiti Remover or acetone without damage to the coating finish.

#### **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**

PC3v100 Anti-Graffiti Solid Color may be air dried or force dried

Dry times @ 70°F (21°C) and 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

#### **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 PC3v100 system.

Refer to Material Safety Data Sheet for proper handling of products listed in this bulletin. Updated 6-2016

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## Technical Product Data

### ***PC3v100 Anti-Graffiti Solid Color***

***Acrylic Polyurethane Reacted Siloxane***



**PRECISION COATINGS**

#### **LIMITATIONS**

Protect installed coating from rain, freezing, and continuous high humidity until completely dry. Do not apply in freezing conditions or if rain is imminent. Do not apply if elevated levels of water vapor transmission may exist behind the coating following application. At water vapor transmission levels greater than 4 perms, blistering or bubbles may occur. Do not use below grade, on horizontal surfaces or in areas of ponding water.

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

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# Technical Product Data



## PC3v100

### Acrylic Polyurethane Clear Coat

PRECISION COATINGS

#### DESCRIPTION

Aliphatic polyurethane  
Superior weathering and durability  
Ultra low VOC, less than 1 gram per liter  
Fine finish quality  
Interior / exterior

Excellent protection for wood (interior)  
Non-yellowing  
Field and shop application  
Gloss, semi-gloss, satin, eggshell, matte  
LEED NC 2009 compliant

#### USES

Adds depth of image in gloss  
Clear wood furniture finish

Protective surface for restaurants and hotels  
Anti-graffiti formulation available

#### 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	PC3v100 (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 THICKNESS	1.0 mils to 3.0 mils
THERORETICAL COVERAGE	561 – 187 sq ft at recommended DFT (no loss)

#### SURFACE PREPARATION

PC3v100 Clear Coat may be applied over properly prepared substrates including steel, aluminum, galvanizing, decorative metals such as copper and brass, masonry block, and wood. Recommended preparation is as follows:

**Steel, Brass, Copper** – 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.

**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.

**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.

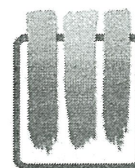
**Wood** – Sand to appropriate smoothness. Clean to eliminate sanding dust and other contamination. Porous woods may require additional coats of clear.

**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.

**PC3v100 Topcoat** – PC3v100 Clear Coat may be applied directly over PC3v100 Acrylic Polyurethane Topcoat. Allow topcoat to flash 20 minutes before applying PC3v100 Clear Coat. After 24 hours, scuff sanding or a light abrasion may be required on the PC3v100 Acrylic Polyurethane topcoat before clear coating utilizing 320 grit paper or finer. PC3V100 can be cut and buffed to achieve extreme high gloss, flaw free finish.

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## PC3v100

### Acrylic Polyurethane Clear Coat

#### INSTRUCTIONS – MIX RATIO

Stir or shake thoroughly to ensure uniform mixture. Mix 3 parts PC3v100 Acrylic Polyurethane Clear Coat with 1 part PC-03 Polyurethane Activator.

**Reduction is not necessary.** However, clear coat 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 clear coat.

**For fisheyes or other related surface defects,** add 1 oz of PCI's Fisheye Remover, #15000, per activated gallon of clear coat.

#### 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 1.0 to 3.0 mils DFT.

#### 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	.015" - .025"	2500 PSI 100 mesh filter

#### DRY TIMES

PC3v100 Acrylic Polyurethane Clear Coat may be air dried or force dried

Dry times @ 70°F (21°C) and 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

#### 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 PC3v100 system.

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

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12.2015

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## Technical Product Data



PRECISION COATINGS

### **PC4 Acrylic Polyurethane Topcoat**

#### **DESCRIPTION**

Aliphatic polyurethane  
Interior and exterior  
Field and shop application  
Product finish  
Fleet Finish

Superior weathering and durability  
Metallic, iridescent (pearl) and solid colors  
Gloss, semi-gloss, satin, eggshell, matte  
Adaptable for OEM applications

#### **TECHNICAL DATA**

% SOLIDS by volume	34% as packaged, 39% as applied
SPRAYABLE VOC (as applied)	250 g/l, 2.8, 3.5 & 4.3 lbs/gal systems (less water & exempt compounds) available
COMPONENTS	PC4 Topcoat (resin) 4 parts / PC-04 (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	65° F, 18° C
MIX RATIO	4:1 (4 parts PC4 Topcoat : 1 part PC-04 Activator)
RECOMMENDED DRY FILM THICKNESS	1.0 mils to 3.0 mils
THEORETICAL COVERAGE	609 – 203 sq ft at recommended DFT (no loss)

#### **SURFACE PREPARATION**

Best results are achieved when PC4 Topcoat is applied over 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.

PC4 Topcoat may be applied over properly prepared substrates including steel, aluminum, galvanizing, decorative metals such as copper and brass, previously coated surfaces, masonry block, and interior wood. Not recommended for exterior wood. Recommended preparation is as follows:

**Steel** – Clean the surface of all foreign material SSPC-SP1 and SSPC-SP2 or SSPC-SP3, 6, or 7. PCI's 02150 Metal Conditioner may be used to clean and treat steel substrates to eliminate oil, soap film, grease, and flash rusting.

**Aluminum & Galvanizing** – Clean the surface of all foreign material SSPC-SP1 and SSPC-SP2 or SSPC-SP3, 6, or 7. PCI's 02150 Metal Conditioner may be used to clean and treat aluminum and galvanizing to eliminate oil and soap film.

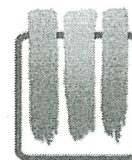
**Concrete & Masonry** – Surface must be cured, clean, dry, and free of contamination and disintegrated or chalky materials. SSPC-SP13 may be used for surface preparation of concrete and masonry block.

**Coated surfaces** – Physically abrade existing coated surfaces. The existing finish must be tightly adhered to the substrate.

#### **PRECISION COATINGS**

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## Technical Product Data



### **PC4 Acrylic Polyurethane Topcoat**

PRECISION COATINGS

#### **INSTRUCTIONS – MIX RATIO**

Stir or shake thoroughly to ensure uniform mixture. Mix 4 parts PC4 Acrylic Polyurethane Topcoat with 1 part PC-04 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"**

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 1.0 to 3.0 mils DFT.

#### **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*	.015" - .025"	2500 PSI 100 mesh filter

\*Solid colors only

#### **DRY TIMES**

PC4 Acrylic Polyurethane Topcoat may be air dried or force dried

Dry times @ 70°F (21°C) and 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:	140° F for 20 min. Allow a 10 min. cool down time.

#### **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 PC4 Topcoat system.

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

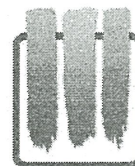
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### **PC4 Acrylic**

#### **PRECISION COATINGS**

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# Technical Product Data



## PRECISION PC5 SILOXANE

PRECISION COATINGS

### Description

High performance siloxane coating  
Superior weathering and chemical resistance  
Solid colors, metallics and iridescents  
Gloss and low semi-gloss finishes  
LEED NC 2009 compliant

Non-isocyanate  
Low VOC  
Corrosion resistant  
Cures at ambient temperature  
Fine finish quality

### USES

Commercial architectural  
Commercial transport  
Ferrous and non-ferrous substrates  
Fleet vehicles

Graffiti resistance  
Industrial maintenance  
Marine  
Structural steel

### 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

PC5 may be applied over appropriately prepared steel, aluminum, galvanizing, concrete, masonry, ceramic tile and coated surfaces. PC5 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 Siloxane. 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 Precision PC5 Siloxane. 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 Precision PC5 Siloxane.

**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 Siloxane. For primed substrates, follow the surface preparation instructions and recoat times for the specific primer used.

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## PRECISION PC5 SILOXANE

PRECISION COATINGS

**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 PC5 Siloxane. For primed substrates, follow the surface preparation instructions and recoat times for the specific primer used.

### INSTRUCTIONS – MIX RATIO

Stir or shake thoroughly to ensure uniform mixture. 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 2.0 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	1.3mm – 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 PC5 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.

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## Technical Product Data



### **PC6 Series** **Waterborne Polyurethane Topcoat**

PRECISION COATINGS

#### **DESCRIPTION**

Single component waterborne  
polyurethane dispersion  
Interior and exterior surfaces  
Field and shop application  
Soap & Water Cleanup  
Very Low Odor - Low VOC  
LEED NC 2009 compliant

Gloss, semi-gloss, satin, eggshell, matte  
Metallic, iridescent (pearl), solid color & clear  
Excellent adhesion and chemical & abrasion  
resistance  
Superior weathering and durability  
No Isocyanates

#### **TECHNICAL DATA**

% SOLIDS by volume	40%
COATING VOC (as packaged)	Less than 50 g/l (less water & exempt compounds)
COATING VOC (as applied)	Less than 50 g/l (less water & exempt compounds)
RESIN TYPE	urethane dispersion
COMPONENTS	single component
SHELF LIFE	one year (unopened)
FLASH POINT	144° F ( 62° C)
RECOMMENDED DRY FILM THICKNESS	1.0 mils to 3.0 mils DFT
THEORETICAL COVERAGE	641 – 213 sq ft at recommended DFT (no loss)

#### **SURFACE PREPARATION**

Best results are achieved when PC6 Topcoat is applied over a primer such as Precision's DTM 1300 High Build Primer for exterior use or DTM 1600 for interior use. DTM 1300 and DTM 1600 are 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. 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. Precision's 02150 Metal Conditioner may be used to clean and treat steel substrates to eliminate oil, soap film, grease, and flash rusting.

**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. DTM 1300 Primer should be used over prepared aluminum.

**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. DTM 1300 Primer should be used over prepared galvanized steel.

**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.

**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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## Technical Product Data

### **PC6 Series** **Waterborne Polyurethane Topcoat**



PRECISION COATINGS

#### **INSTRUCTIONS**

Stir or shake thoroughly to ensure uniform mixture.

**Reduction is not necessary.** However, paint may be reduced up to 5% by volume using tap water.

#### **APPLICATION FOR "SOLID COLORS" & "METALLIC COLORS"**

**Environmental Conditions:** Air and surface temperature must be above 50° Fahrenheit and no more than 90° Fahrenheit. 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. PC6 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**

Dry times @ 70°F (21°C) and 50% RH

Dust Free	15 minutes
Dry to Touch	1 hour
Dry Time	24 hours
Full Cure	14 days
Recoat	Unlimited - no recoat time necessary Sanding will become necessary after 24 hours.

#### **CLEAN UP**

Clean all tools and spray equipment immediately after use with soap and warm water. Acetone may be used as a final solvent rinse.

#### **LIMITATIONS**

Protect installed coating from rain, freezing, and continuous high humidity until completely dry. Do not apply in freezing conditions or if rain is imminent. Do not apply if elevated levels of water vapor transmission may exist following application. At water vapor transmission levels greater than 4 perms, blistering or bubbles may occur. Do not use below grade, on horizontal surfaces or in areas of ponding water.

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

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# Technical Product Data



## ***PRECISION EeZeClean Dry Erase Coating***

**PRECISION COATINGS**

### **Description**

Turns a smooth surface into a write & erase space with a dry erase marker  
Available in white, clear, metallics & solid colors  
Standard Sheen: Gloss  
Surface ready for use in 5 days  
LEED NC 2009 compliant

Two component modified epoxy coating  
Easily cleaned  
Low VOC / Low Odor  
Excellent chemical durability  
Cures at ambient temperature  
Interior / Exterior on appropriate substrates

### **USE**

Precision EeZeClean converts paintable surfaces including walls, columns, panels, hallways and old chalk boards into creative writing / art spaces.

Ideal for offices, schools, hospitals, retail, government and hospitality

### **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	Advanced Polymer Modified Epoxy Coating Resin 4 parts / Activator 1 part
POT LIFE	4 hours @ 70° F, 21° C
SHELF LIFE	one year (unopened)
REDUCERS	Not required
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	401 – 240 sq ft at recommended DFT (theoretical)

### **SURFACE PREPARATION**

Precision EeZeClean Dry Erase may be applied directly over properly prepared substrates (Level 5 smoothness is recommended) including steel, aluminum, galvanizing, concrete, masonry, ceramic tile, MDF, drywall and previously primed or coated surfaces. Good painting practices dictate that before applying this Precision product, a test be performed to ensure that the adhesion, appearance, and color are compatible with the substrate and meet the expectations of the owner.

**Steel, Aluminum & Galvanizing**– 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 Precision EeZeClean Dry Erase. For primed substrates, follow the surface preparation instructions and recoat times for the specific primer used.

**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 Precision EeZeClean Dry Erase.

**Concrete, Masonry, Interior MDF, Interior Drywall, FRP** – Surface must be cured, clean, dry, and free of any dirt, dust, grease, oil, wax, mildew, disintegrated or chalky materials or other contaminants. For primed substrates, follow the surface preparation instructions and recoat times for the specific primer used.

**Previously 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 EeZeClean Dry Erase. For primed substrates, follow the surface preparation instructions and recoat times for the specific primer used.

**Use & Maintenance** – Use any standard dry erase marker. For best results, use Expo® Bold or low odor dry erase markers. For daily erasing and cleaning, use a clean, dry erase cotton cloth, eraser, or micro-fiber towel. Periodically use a clean damp cloth, dry erase cleaner or isopropyl alcohol.

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# Technical Product Data



## **PRECISION EeZeClean Dry Erase**

PRECISION COATINGS

### **INSTRUCTIONS – MIX RATIO**

To optimize performance Precision Coatings recommends EeZeClean be applied over a smooth substrate such as a Level 5 wall finish. EeZeClean can be professionally sprayed to optimize finish smoothness. Stir or drill motor mix thoroughly to ensure uniform mixture. Mix 4 parts EeZeClean Dry Erase resin with 1 part EeZeClean Dry Erase activator. 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 maximum 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 – ¼ to ½ 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
Write On Time	Five Days

**PACKAGING** Available in Quart and Gallon Kits

### **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 Precision EeZeClean Dry Erase. 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.**

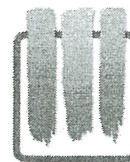
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## Technical Product Data



PRECISION COATINGS

### **Relēs Clean Coating Technology** **Two Component Waterborne** **Polyurethane Topcoat**

#### **DESCRIPTION**

Two component waterborne polyurethane  
Interior & exterior surfaces  
Soap & Water Cleanup  
Very Low Odor - Low VOC  
LEED NC 2009 compliant

Excellent stain resistance & removal  
Gloss, semi-gloss, satin, & eggshell sheens  
Metallic, iridescent (pearl), solid colors & clears  
Excellent adhesion & chemical resistance  
Highly scrub resistant

#### **TECHNICAL DATA**

% SOLIDS by volume	56%
COATING VOC (as packaged)	Less than 59 g/l (less water & exempt compounds)
COATING VOC (as mixed)	Less than 32 g/l (less water & exempt compounds)
RESIN TYPE	Urethane dispersion
COMPONENTS	2:1 (2 parts CT Topcoat : 1 part CT Activator)
POT LIFE	2 hours @ 77° F
SHELF LIFE	one year (unopened)
MIX RATIO	2:1 (2 PARTS CT Topcoat: 1 PART CT Activator)
RECOMMENDED DRY FILM THICKNESS	1 mils to 4mils DFT
THEORETICAL COVERAGE	898 - 245 sq ft per gallon

#### **SURFACE PREPARATION**

Relēs Clean Coating Technology is designed as a finish coat over properly prepared and primed substrates including steel, aluminum, galvanized steel, concrete, masonry, MDF, drywall, interior wood and previously coated surfaces. Substrates should be primed with DTM 1300 modified epoxy sanding primer, DTM 1600 bonding primer, DTM 3000 polyurethane primer or itself. Prepare substrates prior to priming and top coating as recommended below:

**Steel** – Clean the surface to ensure that the substrate is free of grease, dirt, wax, mildew and other contaminants (SSPC-SP1) and abrade to achieve SSPC-SP2, SP3, SP6, SP7 or SP11 levels of surface preparation. Precision's 02150 Metal Conditioner may be used to clean and treat steel substrates to eliminate oil, soap film, grease and flash rusting.

**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.

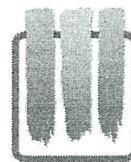
**Concrete, Masonry, MDF and Drywall** – Surface must be clean, dry and free of any dirt, dust, grease, oil, wax, mildew, silicones, disintegrated or chalky materials, bond breakers or other contaminants.

**Previously Coated Surfaces** - Surface must be clean, tightly adhered and free of any dirt, grease, oil or other contaminants. Existing coatings should be properly abraded to achieve an acceptable profile to provide adequate adhesion for the primer and topcoat.

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## Technical Product Data



PRECISION COATINGS

# **Relēs Clean Coating Technology** **Two Component Waterborne** **Polyurethane Topcoat**

### INSTRUCTIONS

Stir or shake each container before mixing together. Mix thoroughly 2 parts Relēs Clean Topcoat with 1 part of Relēs Clean Activator. Accurate measurement is essential. Reduction is not necessary; however, coating may be reduced up to 5% by volume using tap water. Do not use any mixed Relēs Clean Topcoat after 2 hours and clean application tools and containers before reuse.

### APPLICATION FOR "SOLID COLORS" & "METALLIC COLORS"

**Environmental Conditions:** Air and surface temperature must be above 50° Fahrenheit and no more than 90° Fahrenheit. 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. For detailed metallic and iridescent application instructions, see Precision Coatings' Guidance: "Metallic and Iridescent Finishes." Allow a 5 to 10 minute flash time between coats if spray applied. Relēs Clean Topcoat should be applied to achieve a recommended dry film thickness between 1.0 to 3.0 mils.

### 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	1.6mm – 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

Dry times @ 70°F (21°C) and 50% RH

Dust Free	30 minutes
Dry to Touch	3 hours
Dry Time	24 hours
Full Cure	7 days
Recoat	Unlimited - no recoat time necessary Sanding will become necessary after 24 hours.

### CLEAN UP

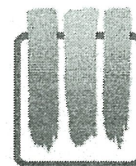
Clean all tools and spray equipment immediately after use with soap and warm water. Acetone may be used as a final rinse.

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

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## PRECISION COATINGS

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## **REFLECT 3000** **Infra-Red Reflective Finish Coat**

PRECISION COATINGS

### **DESCRIPTION**

Acrylic aliphatic polyurethane  
Exterior surfaces  
Field and shop application  
Infra-Red reflective  
Available in gloss, semi-gloss, and satin sheens

Reflects heat, keeping substrates cooler  
Chemical resistant  
Superior weathering and durability  
Anti-graffiti formulation available  
LEED 2009 compliant

### **TECHNICAL DATA**

% SOLIDS by volume	34% as packaged, 38% as applied
COATINGS VOC (as packaged)	max. 50 g/l (less water & exempt compounds)
SPRAYABLE VOC (as applied)	max. 50 g/l (less water & exempt compounds)
COMPONENTS	Reflect 3000 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 Reflect 3000 Resin : 1 part PC-03 (cure))
RECOMMENDED DRY FILM THICKNESS	1.0 mils to 3.0 mils
THERORETICAL COVERAGE	609 – 203 sq ft at recommended DFT (no loss)

### **SURFACE PREPARATION**

Best results are achieved when REFLECT 3000 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.

**REFLECT 3000** may be applied over properly prepared substrates including steel, aluminum, galvanizing, decorative metals such as copper and brass, previously coated surfaces, masonry block, and wood. Recommended preparation is as follows:

**Steel** – Clean the surface of all foreign material SSPC-SP1 and SSPC-SP2 or SSPC-SP3, 6, or 7. PCI's 02150 Metal Conditioner may be used to clean and treat steel substrates to eliminated oil, soap film, grease, and flash rusting.

**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.

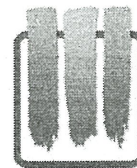
**Galvanized Steel** – Preparation shall meet ASTM D6386 –10. Remove all contaminants per SSPC-SP1, check for the presence of chromates or other passivation treatments per SSPC-SP16. If passivation treatment exists, brush-off blast cleaning per SSPC-SP16 is required. Complete removal of chromates or 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, and free of contamination and disintegrated or chalky materials. SSPC-SP13 may be used for surface preparation of concrete and masonry block.

**Coated surfaces** – Physically abrade existing coated surfaces. PCI's Paint Prep may also be used to treat existing finishes, including polyurethane finishes. Paint Prep eliminates the need for abrasion. The existing finish must be tightly adhered to the substrate.

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## **REFLECT 3000** **Infra-Red Reflective Finish Coat**

PRECISION COATINGS

### **INSTRUCTIONS – MIX RATIO**

Stir or shake thoroughly to ensure uniform mixture. Mix 3 parts REFLECT 3000 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**

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 passes until desired coverage and flow is reached. Allow a 5 to 10 minute flash time between coats. Recommended film thickness is 1.0 to 3.0 mils DFT. For detailed metallic and iridescent application instructions, see Precision Metallic and Iridescent Guidance.

### **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. Airless spray application not recommended for metallic finishes.	
Roller Application	phenolic core (clears and solid colors only)	
Brush Application	natural bristle (clears and solid colors only)	

### **DRY TIMES**

may be air dried or force dried

Dry times @ 70°F (21°C) and 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:	140° F for 20 min. Allow a 10 min. cool down time.

### **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 REFLECT 3000 system.

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

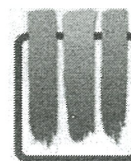
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11/2015

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# Technical Product Data



## PRECISION SLIPSHIELD®

PRECISION COATINGS

### DESCRIPTION

Slip resistant modified epoxy floor sealer  
Improves coefficient of friction when properly applied on selected substrates  
Superior ultra-violet weathering  
Stain resistant and highly cleanable  
Low VOC – Low Odor / No isocyanates  
Available in gloss & semi gloss sheens  
Clear and solid color finishes  
LEED NC 2009 compliant

### USES

Slip resistant coating system  
Commercial and institutional floors  
Industrial maintenance floors  
Concrete flooring (interior/exterior)  
Ceramic tile floors (interior/exterior)  
Polished stone floors  
Grout lines

### TECHNICAL DATA

% SOLIDS by volume	92% as applied
COATINGS VOC (as packaged)	max. 3 g/l (less water & exempt compounds)
APPLIED VOC (reacted)	max. 89 g/l (less water & exempt compounds) includes reaction volatiles
COMPONENTS	Advanced Polymer Modified Epoxy Coating Resin 4 parts /Activator 1 part
POT LIFE	4 hours @ 70° F, 21° C
SHELF LIFE	one year (unopened)
REDUCERS	Not required
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
THEORETICAL COVERAGE	491 – 295 sq. ft. at recommended DFT (theoretical)

**Precision SlipShield®** slip resistant floor sealer may be applied over appropriately prepared concrete, ceramic tile, polished stone, tightly adherent coatings as well as steel and galvanized decking. Precision SlipShield® is available in Clear, Fleet White, Titanium Gray, Shadow Beige, Desert Brown, and standard safety colors. Custom color matching is available upon request.

Flooring installation professionals are best equipped to install SlipShield®. Good painting practices require that before applying the coating, a field mock-up on the actual project substrate of approximately 4' x 4' be installed to confirm adhesion, compatibility, appearance and ensure the suitability of the product for its intended use including measuring the coefficient of friction before and after applying the mock-up to verify and approve the adequacy of the product for the specific application. Coating performance is proportional to the degree of surface preparation performed prior to application. All surfaces must be clean, dry, and free of oil, grease, wax, dirt, salt deposits or other contamination.

If extra slip resistance is needed due to water, splash and spill, steep ramps, stairs or other considerations, Precision's specialized aggregate, **SlipShield® Aggregate** can be added to SlipShield® to further increase slip resistance on interior and exterior surfaces. The addition of our unique aggregate in SlipShield® provides improved slip resistance with minimal aesthetic impact on tile, polished stone, polished concrete, and coated floors.

### SURFACE PREPARATION:

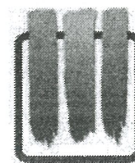
**Concrete** – Surface must be cured, clean, dry and free of contamination. Water vapor pressure in concrete shall not exceed 4 lbs. per 1,000 square feet. Shot blast or grind to remove laitance and achieve a 70-80 mesh profile appearance per SSPC – SP13. NACE 6 Surface Preparation of Concrete.

**Ceramic Tile** – Tile surface and grout must be clean and dry. All wax, grease, silicone sealants, dirt and other contaminants must be removed from the surface.

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# Technical Product Data



## **PRECISION SLIPSHIELD®**

**PRECISION COATINGS**

**Polished Stone Flooring** – Stone surface and grout must be clean and dry. All wax, grease, silicone sealants, dirt and other contaminants must be removed from the surface.

**Steel** – Clean the surface of all foreign material SSPC-SP1 and SSPC-SP2 or SSPC-SP3, SSPC-SP6 or SSPC-SP7. Substrate must be clean, dry and free of any contaminants prior to application. 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.

**New and Existing Coated Surfaces** – Physically abrade existing coated surfaces thoroughly and completely with 180 grit or equivalent abrasive paper or scuff pad. Substrate must be clean, dry and free of any contaminants prior to application of the Precision SlipShield®. For primed substrates, follow the surface preparation instructions and recoat times for the specific primer used.

### **INSTRUCTIONS – MIX RATIO**

Stir SlipShield® Part A thoroughly prior to mixing SlipShield® Part A with SlipShield® Cure. Thoroughly mix Part A and Part B together to ensure a uniform mixture of the two parts. Mix 4 parts SlipShield® Part A with 1 part SlipShield® Cure. Additional reduction is not necessary.

### **APPLICATION**

Precision SlipShield® is designed for application by professional coating applicators only. Precision SlipShield® is commonly applied by floor coating application pad, roller or brush. Utilize a 3/16" or 3/8" nap phenolic core roller. Application can also be done by spray. Recommended film thickness is 3.0 to 5.0 mils DFT. Air and surface temperature must be above 50° Fahrenheit and no more than 95° Fahrenheit during application. Surface temperatures must be at least 5° F (3° C) above the dew point for application. Relative humidity below 40% will extend the dry times.

### **APPLICATION EQUIPMENT**

Roller – 3/16" to 3/8" inch nap, phenolic core  
Brush – natural bristle  
Floor Coating Applicator Pad – Lambskin

### **DRY TIMES**

Dry times @ 70°F (21°C) and 50% RH

Tack Free	4 hours
Dry Time	24 hours light traffic / 48 hours full traffic
Recoat	Clean surface and abrade with 180 grit abrasive paper prior to recoating,

### **CLEAN UP**

Follow local, state and federal regulations. Clean all application equipment including spray equipment immediately after use. Acetone may be used to clean application equipment. PCI's 17000 Gun Cleaner is a VOC exempt cleaner and may be used for cleaning application equipment used to apply the Precision SlipShield® system. Refer to Safety Data Sheet for proper handling of products listed in this bulletin.

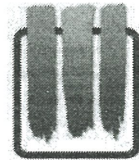
### **SLIPSHIELD® MAINTENANCE**

Precision SlipShield® can be cleaned and maintained with water and mild non-abrasive detergent cleaning. In order to optimize and maintain its slip-resistant properties, Precision SlipShield® should NOT be waxed. Facility owners and operators using SlipShield® are responsible for developing a daily maintenance plan and establishing a walkway audit schedule of the floors coated with SlipShield®.

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# Technical Product Data



## **PRECISION SLIPSHIELD®**

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### **LIMITATIONS**

For professional use only. Not intended for residential use. Air and surface temperature must be above 50° Fahrenheit and no more than 95° Fahrenheit during application. In areas with limited or no exposure to natural light, SlipShield may amber in color. This coating is not recommended for immersion service and should not be applied to unstable substrates.

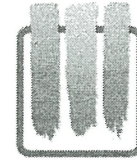
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## Technical Product Data



### ***PRECISION DTM 1300v100 SERIES High Build Modified Epoxy Primer***

**PRECISION COATINGS**

#### **DESCRIPTION**

Surface tolerant epoxy primer  
Interior and exterior surfaces  
Spray, brush or roll application  
High film build  
Exceptional adhesion to a wide variety of substrates

Fast recoat time  
Low VOC  
Superior protective properties  
LEED NC 2009 compliant

#### **TECHNICAL DATA**

AVAILABLE COLORS	White (# 13600), Gray (# 13500), Black (# 13200)
% SOLIDS by volume	60% as packaged, 54% as applied
SPRAYABLE VOC as applied	96 g/l (less water & exempt compounds)
COMPONENTS	DTM 1300v100 Series High Build Primer (resin) 3 parts 13510 High Build Primer Converter (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	65° F, 18° C
MIX RATIO	3:1 (3 parts primer : 1 part converter)
RECOMMENDED DRY FILM THICKNESS	2.0 mils to 6.0 mils
THEORETICAL COVERAGE	433 – 144 sq. ft. at recommended DFT (theoretical)

#### **SURFACE PREPARATION**

DTM 1300 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. 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. Precision's 02150 Metal Conditioner may be used to clean and treat steel substrates to eliminate oil, soap film, grease, and flash rusting.

**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 DTM 1300v100 are required if gypsum board is not primed due to surface porosity. If primed, one coat of DTM 1300v100 is required before finish coating.

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## Technical Product Data



### **PRECISION DTM 1300v100 SERIES** **High Build Modified Epoxy Primer**

PRECISION COATINGS

#### **INSTRUCTIONS – MIX RATIO**

Stir or shake thoroughly to ensure uniform mixture. Mix 3 parts DTM 1300v100 resin with 1 part DTM 13510 Converter.

**Reduction is not necessary.** However, activated primer may be reduced up to 10% by volume using Precision's 16060 VOC Exempt Reducer.

#### **APPLICATION**

**Environmental Conditions:** Air and surface temperature must be above 50° Fahrenheit and no more than 95° Fahrenheit. 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 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

Dust Free	5 minutes
Tack Free	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.

PCI's 17000 Gun Cleaner is a VOC exempt cleaner and is recommended for cleaning application equipment used to apply the DTM 1300v100 Series High Build Primer system.

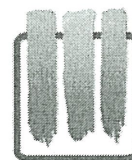
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# Technical Product Data



## ***PRECISION DTM 1400 Series Non-Sanding Modified Epoxy Primer***

PRECISION COATINGS

### **Description**

Multi-purpose epoxy modified primer  
Interior and exterior surfaces  
May be used as a primer sealer

Exceptional adhesion to a wide variety of  
substrates  
Fast topcoat time  
Superior protective properties

### **TECHNICAL DATA**

AVAILABLE COLORS	White (# 14600), Gray (# 14500), Black (# 14200)
% SOLIDS by volume	40% as packaged, 38% as applied
SPRAYABLE VOC as applied	250 g/l (less water & exempt compounds)
COMPONENTS	DTM 1400 Series Non-Sanding Primer (resin) 4 parts 14610 Non-Sanding Primer Converter (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	65° F, 18° C
MIX RATIO	4:1 (4 parts primer : 1 part converter)
RECOMMENDED DRY FILM THICKNESS	1.5 mils to 3.0 mils
THEORETICAL COVERAGE	406 – 203 sq ft at recommended DFT (no loss)

### **SURFACE PREPARATION**

DTM 1400 Series Primer may be applied over properly prepared substrates including steel, aluminum, galvanizing, coated surfaces, concrete, masonry block, and wood. Recommended preparation is as follows:

**Steel** – Clean the surface of all foreign material SSPC-SP1 and SSPC-SP2 or SSPC-SP3, 6, or 7. PCI's 02150 Metal Conditioner may be used to clean and treat steel substrates to eliminate oil, soap film, grease, and flash rusting.

**Aluminum & Galvanizing** – Clean the surface of all foreign material. PCI's 02150 Metal Conditioner may be used to clean and treat aluminum and galvanizing to eliminate oil and soap film.

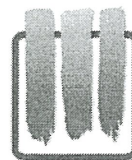
**Concrete & Masonry** – Surface must be cured, clean, dry, free of contamination and disintegrated or chalky materials. SSPC-SP13 may be used for surface preparation of concrete and masonry block.

**Coated surfaces** – Physically abrade existing coated surfaces. PCI's Paint Prep may also be used to treat existing finishes, including polyurethane finishes. Paint prep eliminates the need for abrasion. The existing finish must be tightly adhered to the substrate.

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# Technical Product Data



## ***PRECISION DTM 1400 Series Non-Sanding Modified Epoxy Primer***

**PRECISION COATINGS**

### **INSTRUCTIONS – MIX RATIO**

Stir or shake thoroughly to ensure uniform mixture. Mix 4 parts DTM 1400 Series Non-Sanding Primer with 1 part 14610 DTM Non-Sanding Primer Converter.

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

### **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 1.5 to 3.0 mils DFT.

### **SPRAY GUN SET-UP & PRESSURE**

<u>Type</u>	<u>Fluid Tip</u>	<u>Spraying Pressure</u>
Siphon Feed	1.6mm – 1.8mm	40-65-PSI
Gravity Feed	1.6mm – 1.8mm	40-65 PSI
HVLP Siphon	1.6mm – 1.8mm	max. 10 PSI @ the air cap
HVLP Gravity	1.6mm – 1.8mm	max. 10 PSI @ the air cap
Pressure Pot	1.1 mm- 1.3 mm	29 PSI - 58 PSI

### **DRY TIMES**

Dry times @ 70°F (21°C) and 50% RH

Dust Free	5 minutes
Tack Free	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 spray equipment. PCI's 17000 Gun Cleaner is a VOC exempt cleaner and is recommended for cleaning application equipment used to apply the DTM 1400 Series Non-Sanding Primer system. Refer to Material Safety Data Sheet for proper handling of products listed in this bulletin.

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## **DTM 1600 Series** **Waterborne Urethane Bonding Primer**

PRECISION COATINGS

### **DESCRIPTION**

Single component waterborne urethane bonding primer  
Interior and exterior surfaces  
Soap & Water Cleanup  
Very Low Odor - Low VOC  
Ultra-Violet resistant

Suitable for a variety of substrates including ferrous and non-ferrous metal, masonry, drywall, MDF,  
Corrosion resistant  
Excellent adhesion & chemical resistant  
LEED NC 2009 compliant

### **TECHNICAL DATA**

% SOLIDS by volume	40%
COATINGS VOC (as packaged)	less than 50 g/l (less water & exempt compounds)
SPRAYABLE VOC (as applied)	less than 50 g/l (less water & exempt compounds)
RESIN TYPE	urethane dispersion
COMPONENTS	single component
SHELF LIFE	one year (unopened)
FLASH POINT	144° F ( 62° C)
RECOMMENDED DRY FILM THICKNESS	1.0 mils to 3.0 mils DFT
THEORETICAL COVERAGE	641 – 213 sq ft at recommended DFT (no loss)

### **SURFACE PREPARATION**

DTM 1600 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. 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. Precision's 02150 Metal Conditioner may be used to clean and treat steel substrates to eliminate oil, soap film, grease, and flash rusting.

**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 DTM 1600 Primer are required if gypsum board is not primed due to surface porosity. If primed, one coat of DTM 1600 Primer is required before finish coating.

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## **DTM 1600 Series** **Waterborne Urethane Bonding Primer**

### **INSTRUCTIONS**

Stir or shake thoroughly to ensure uniform mixture.

**Reduction is not necessary.** However, paint may be reduced up to 5% by volume using tap water.

### **APPLICATION**

May be applied by brush, roller or spray. If sprayed, 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 1.0 to 3.0 mils DFT.

### **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	1.6mm – 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

### **DRY TIMES**

Dry times @ 70°F (21°C) and 50% RH

Dust Free	15 minutes
Dry to Touch	1 hour
Dry Time	24 hours
Full Cure	14 days
Recoat	Unlimited - no recoat time necessary
	Sanding will become necessary after 24 hours.

### **CLEAN UP**

Clean all tools and spray equipment immediately after use with soap and warm water. Acetone may be used as a final rinse.

### **LIMITATIONS**

Protect installed coating from rain, freezing, and continuous high humidity until completely dry. Do not apply in freezing conditions or if rain is imminent. Do not apply if elevated levels of water vapor transmission may exist following application. At water vapor transmission levels greater than 4 perms, blistering or bubbles may occur. Do not use below grade, on horizontal surfaces or in areas of ponding water.

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# Technical Product Data



## **PRECISION DTM 3000 SERIES** **Polyurethane Primer**

PRECISION COATINGS

### **DESCRIPTION**

Multi-purpose polyurethane primer  
Interior and Exterior surfaces  
Spray, brush or roll application  
May be used as a primer sealer  
Exceptional adhesion to a wide variety of substrates

Fast recoat time  
Low VOC  
Superior protective properties  
LEED NC 2009 compliant

### **TECHNICAL DATA:**

AVAILABLE COLORS	White (# 30500), Gray (# 30560), Black (# 30540), Red Oxide (#30550), Yellow Oxide (#30570)
% SOLIDS by volume	43% as packaged, 45% as applied
SPRAYABLE VOC as applied	28 g/l (less water & exempt compounds)
COMPONENTS	DTM 3000 Series Polyurethane Primer (resin) 3 parts PC-03 Polyurethane Activator (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	65° F, 18° C
MIX RATIO	3:1 (3 parts primer: 1 part activator)
RECOMMENDED DRY FILM THICKNESS	1.5 mils to 3.0 mils
THEORETICAL COVERAGE	481 – 240 sq. ft. at recommended DFT (no loss)

### **SURFACE PREPARATION**

DTM 3000 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. 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. Precision's 02150 Metal Conditioner may be used to clean and treat steel substrates to eliminate oil, soap film, grease, and flash rusting.

**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.

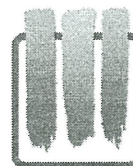
**Galvanized Steel** – Preparation shall meet ASTM D6386 –10. Remove all contaminants per SSPC-SP1, check for the presence of chromates or other passivation treatments per SSPC-SP16. If passivation treatment exists, brush-off blast cleaning per SSPC-SP16 is required. Complete removal of chromates or 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.

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## **PRECISION DTM 3000 SERIES** **Polyurethane Primer**

PRECISION COATINGS

### **INSTRUCTIONS – MIX RATIO**

Stir or shake thoroughly to ensure uniform mixture. Mix 3 parts DTM 3000 Series Primer with 1 part PC-03 Polyurethane Activator.

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

**For faster cure times,** add up to 8 oz of PCI's 12030 Urethane Accelerator per ready to spray gallon of primer.

### **APPLICATION**

**Environmental Conditions:** Air and surface temperature must be above 50° Fahrenheit and no more than 95° Fahrenheit. 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	1.6mm – 1.8mm	40-65-PSI
Gravity Feed	1.6mm – 1.8mm	40-65 PSI
HVLP Siphon	1.6mm – 1.8mm	max. 10 PSI @ the air cap
HVLP Gravity	1.6mm – 1.8mm	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	

Brush – natural bristle

Roller – ¼ to ¾ inch nap, phenolic core

### **DRY TIMES**

DTM 3000 Series Primer may be air dried or force dried

Dry times @ 70°F (21°C) and 50% RH

Dust Free 5 minutes

Tack Free 1 hour

Recoat May be recoated at any stage.

Scuff sanding or light abrasion will become necessary after 24 hours.

Force Dry 140° F for 20 minutes. Allow a 10minute cool down time before handling.

### **CLEAN UP**

Clean all spray equipment immediately after use. Acetone may be used for cleanup of application equipment. PCI's 17000 Gun Cleaner is a VOC exempt cleaner and is recommended for cleaning application equipment used to apply the DTM 3000 Primer system.

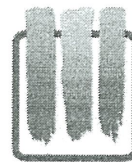
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## 02150 Metal Conditioner

### DESCRIPTION

02150 Metal Conditioner is a one-step cleaner, degreaser and phosphatizer for steel and aluminum substrates. Not recommended for cleaning galvanized steel. Metal Conditioner will eliminate rust from steel substrates and is extremely effective in eliminating flash rusting on freshly blasted steel. Metal Conditioner eliminates oil, grease, and other low surface tension contamination and conditions the metal for exceptionally good adhesion of primer and paint.

### TECHNICAL DATA

PACKAGED VOC	132 g/l, 1.1 lbs/gal
VOC AS USED AS DIRECTED	12 g/l, 0.1 lb/gal
SHELF LIFE	one year (unopened)
FLASH POINT	150° F, 66° C
RECOMMENDED DILUTION FOR USE	1 part 02150 Metal Conditioner to 10 parts water

### DIRECTIONS FOR USE

Mix 1 part 02150 Metal Conditioner with 10 parts water. Apply to metal substrate by wiping, mopping, pump sprayer, or pressure sprayer. Allow Metal Conditioner to condition metal for 5-10 minutes. Rinse with a 2% solution of Metal Conditioner in water (2 parts Metal Conditioner to 100 parts water). Allow substrate to completely dry before applying primer or paint.

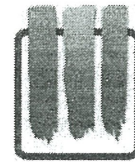
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## Technical Product Data



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### **SlipShield® Aggregate (5010)**

#### **DESCRIPTION**

SlipShield® Aggregate (5010) is a 300-micron micronized polymer bead that is designed to be added to SlipShield® to provide additional slip resistance. Its spherical-shaped particles allow for easy cleaning of the surface. It also provides a smoother feel under foot when used on surfaces where bare feet are present. SlipShield® Aggregate is designed to be added after SlipShield® has been activated by mixing Parts A and B together and prior to application.

#### **TECHNICAL DATA**

PACKAGED VOC	0 g/l; 0 lbs/gal
PARTICLE SIZE AS PACKAGE	300 microns
SHELF LIFE	unlimited
FLASH POINT	none
RECOMMENDED USE LEVEL	Up to 8 oz. per mixed gallon

#### **DIRECTIONS FOR USE**

Mix 4 parts by volume of SlipShield® Resin (Part A) with 1 part by volume SlipShield® Cure (Part B). While continually stirring, add SlipShield® Aggregate at the desired rate up to 8 oz. per mixed gallon. The product may float at first, but once it has wet out, it will mix well. Application of SlipShield® with aggregate is recommended by 3/16" to 3/8" nap phenolic core roller.

Occasionally stir during application to ensure that the aggregate remains well suspended in the coating. To ensure that SlipShield® Aggregate is uniformly distributed across the surface, do not allow the aggregate to heavily accumulate on the roller prior to application. Prior to application, rolling the roller cover several times on the slanted portion of a roller tray, bucket grid or cardboard panel after loading the roller with material has been demonstrated to aid in producing a uniform distribution of the aggregate on the substrate. Do not over roll the material once applied to allow the material to flow out uniformly.

Due to the wide variety of substrates, application methods and environmental conditions, it is important to test (apply mock-up) SlipShield® with Aggregate in an inconspicuous spot to confirm application technique, adhesion, compatibility and appearance prior to commencing the project and application.

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## Technical Product Data



### **12030** **Urethane Accelerator**

PRECISION COATINGS

#### **DESCRIPTION**

12030 Urethane Accelerator is a catalyst designed to accelerate the drying and cure times of PC3v100, PC3, and PC4 Topcoats and Clear Coats. This additive maintains excellent pot life stability while producing fast tack free and curing times.

#### **TECHNICAL DATA**

PACKAGED VOC	107 g/l, 0.89 lbs/gal
PACKAGED VOC (less water & exempt compounds)	979g/l, 8.16 lbs/gal
SHELF LIFE	one year (unopened)
FLASH POINT	-4° F, -20° C
RECOMMENDED USE LEVEL	8 fluid ounces per gallon of activated Topcoat or Clear Coat

#### **DIRECTIONS FOR USE**

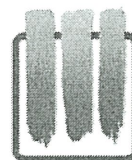
Add up to 8 fluid ounces of 12030 Urethane Accelerator per activated gallon of Topcoat or Clear Coat.

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PRECISION COATINGS

## ***15000 Fisheye Eliminator***

### **DESCRIPTION:**

15000 Fisheye Eliminator is a very effective additive for preventing fisheyes, craters, and other surface tension defects in the paint film caused by surface contamination. It is compatible with PC3v100, PC3 & PC4 Topcoats and PC3v100, PC3 & PC4 Clear Coats.

### **TECHNICAL DATA:**

PACKAGED VOC	809 g/l, 6.75 lbs/gal
SHELF LIFE	one year (unopened)
FLASH POINT	102° F, 39° C
RECOMMENDED USE LEVEL	1 fluid ounce per gallon of activated Topcoat or Clear Coat

**DIRECTIONS FOR USE:** add up to 1 fluid ounce of 15000 Fisheye Eliminator per activated gallon of Topcoat or Clear Coat.

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PRECISION COATINGS

## **16050** **VOC Exempt Reducer**

### **DESCRIPTION:**

16050 VOC Exempt Reducer is a zero VOC, exempt solvent for reducing or thinning PCI coating products. It is compatible with PC3v100 and PC4 Topcoats and Clear Coats. It is also compatible with DTM 1300 Series High Build Primers and DTM 1400 Series Non-Sanding Primers. 16050 VOC Exempt Reducer should not be used with PC5 Siloxane, SlipShield 1000 or EeZeClean.

### **TECHNICAL DATA**

PACKAGED VOC	None, exempt solvent
SHELF LIFE	one year (unopened)
FLASH POINT	-4° F, -20° C

**DIRECTIONS FOR USE:** Add up to 10% 16050 VOC Exempt Reducer to activated PC3v100 or PC4 Topcoat or Clear Coats. Add up to 10% 16050 VOC Exempt Reducer to activated DTM 1300 Series High Build Primers and DTM 1400 Series Non-Sanding Primers.

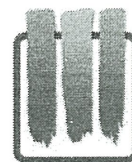
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## Technical Product Data



PRECISION COATINGS

### **16060** **VOC Exempt Reducer II**

#### **DESCRIPTION:**

Our newest VOC Exempt Reducer II, 16060, has zero VOC and is an exempt solvent for reducing or thinning Precision Coatings products. It is compatible with PC3v100, PC4, PC5 Siloxane, Reflect 3000, Reflect 5000, SlipShield 1000 and EeZeClean. It is also compatible with DTM 1300 Series High Build Primers and DTM 1400 Series Non-Sanding Primers.

#### **TECHNICAL DATA**

PACKAGED VOC	None, exempt solvent
SHELF LIFE	one year (unopened)
FLASH POINT	109° F, 42.8° C

#### **DIRECTIONS FOR USE:**

Add up to 10% 16060 VOC Exempt Reducer II to activated PC3v100, PC4, PC5 Siloxane, Reflect 3000, Reflect 5000, SlipShield 1000 and EeZeClean. Add up to 10% 16060 VOC Exempt Reducer II to activated DTM 1300 Series High Build Primers and DTM 1400 Series Non-Sanding Primers.

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# Technical Product Data



PRECISION COATINGS

## 16070 Urethane Retarder

### DESCRIPTION

Precision Coatings Urethane Retarder (16070) is a solvent retarder designed for use during hot and humid weather conditions. Precision's Urethane Retarder is used in conjunction with Precision PC3 Series Acrylic Polyurethane Topcoats, PC4 Acrylic Polyurethane Topcoats and PC5 Polysiloxane Topcoats. Urethane Retarder (16070):

- Increases wet edge times and
- Retains excellent appearance of topcoat

### TECHNICAL DATA

PACKAGED VOC	810 grams/liter
POT LIFE OF MIXED GALLON	3 hours @70° F (21° C)
SHELF LIFE	one year (unopened)
FLASH POINT	102° F (39° C)
RECOMMENDED USE LEVEL	Add 6 to 12 fluid ounces per activated gallon

### DIRECTIONS FOR USE

Add 6 to 12 fluid ounces of Urethane Retarder (16070) per activated gallon of PC3 Acrylic Polyurethane Topcoat, PC4 Acrylic Polyurethane Topcoat and PC5 Polysiloxane Topcoat.

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## **17000 Gun Cleaner**

### **DESCRIPTION:**

17000 Gun Cleaner is a zero VOC, exempt solvent for cleaning spray equipment used to apply PCI coatings and related products. It is an effective cleaner for all PCI coating products.

### **TECHNICAL DATA**

PACKAGED VOC	None, exempt solvent
SHELF LIFE	one year (unopened)
FLASH POINT	-4° F, -20° C

**DIRECTIONS FOR USE:** Clean spray equipment by wiping exterior components and surfaces. Discharge an appropriate quantity through the spray equipment to clean the interior components. Wipe dry. Regulations may require specific procedures for cleaning spray equipment. Follow Federal, State and Local regulations for cleaning spray equipment.

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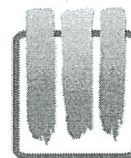


## **PRECISION COATINGS**

### TEST RESULTS

#### **PRECISION COATINGS**

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# PC3v100 Series Acrylic Polyurethane Topcoat

PRECISION COATINGS

## PERFORMANCE DATA

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

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11/2014

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## Technical Product Data



PRECISION COATINGS

### PC4 Acrylic Polyurethane Topcoat

#### PERFORMANCE DATA

TEST METHOD	SYSTEM (7 day, ambient temp. cure)	RESULTS
ASTM D-3359 Adhesion	Cold Rolled Steel Q-Panel Solvent wipe 02150 Metal Conditioner 2.2 mils DFT PC4/PC04 Topcoat	100% retention (no tape off)
ASTM D-4587 QUV Resistance Accelerated Weathering	Cold Rolled Steel Q-Panel Solvent wipe 02150 Metal Conditioner 2.2 mils DFT PC4/PC04 Topcoat	Gloss - 93% retention after 2020 hours delta E color change - 0.71 after 2020 hours No blistering, rusting, checking or cracking
ASTM B-117 Salt Fog	Cold Rolled Steel Q-Panel Solvent wipe 02150 Metal Conditioner 2.2 mils DFT PC4/PC04 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 2.2 mils DFT PC4/PC04 Topcoat	No blistering, cracking, softening or delamination after 500 hours Gloss - 98% retention after 500 hours
ASTM D-1308 Chemical Resistance  24 hour spot test	Cold Rolled Steel Q-Panel Solvent wipe 02150 Metal Conditioner 2.2 mils DFT PC4/PC04 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 2.2 mils DFT PC4/PC04 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 2.2 mils DFT PC4/PC04 Topcoat	180 degree bend, 1/4" mandrel - pass

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10.2010

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## Technical Product Data

### PC5 Siloxane



#### PERFORMANCE DATA

#### PRECISION COATINGS

TEST	METHOD	RESULTS
ADHESION	ASTM D-3359 Standard Methods for Measuring Adhesion by Tape Test	100 % retention (no tape off)
ADHESION	ASTM D-4541 Standard Test Method for Pull-Off Strength of Coatings Using Portable Adhesion Testers	2700 psi
HARDNESS	ASTM D-3363 Standard Test Method for Film Hardness by Pencil Test	4H
ABRASION	ASTM D-4060 Standard Test Method for Abrasion Resistance of Organic Coatings by Taber Abraser	51 milligrams average loss after 1000 cycles with CS-17 wheel and 1000 grams load
ACCELERATED WEATHERING	ASTM D-4587 Standard Practice for Fluorescent UV-Condensation Exposures of Paint and Related Coatings	83% sheen retention after 4000 hours delta E color change: 0.87 after 4000 hours No blistering, cracking or checking
SALT FOG	ASTM B-117 Standard Practice for Operating Salt Spray (Fog) Apparatus	No blistering, cracking, softening or delamination after 5500 hours
HUMIDITY RESISTANCE	ASTM D-2247 Standard Practice of Testing Water Resistance of Coatings in 100% Relative Humidity	No blistering, cracking, softening or delamination after 5500 hours
CHEMICAL RESISTANCE	ASTM D-1308 Standard Test Method for Effect of Household Chemicals on Clear and Pigmented Organic Finishes	Mustard, Rubbing Alcohol, Hand Sanitizer, Bleach, Vinegar, Red Wine, Stain Remover, Window Cleaner, Toilet Bowl Cleaner, Gasoline, Motor Oil, Brake Fluid, Power Steering Fluid – All No Effect
CHEMICAL RESISTANCE	ASTM D-5402 Standard Practice for Assessing the Solvent Resistance of Organic Coatings Using Solvent Rubs	Xylene, Methyl Ethyl Ketone (MEK), 87 octane unleaded gasoline – all 200 double rubs no effect
FLEXIBILITY	ASTM D-522 Standard Test Methods for Mandrel Bend Test of Attached Organic Coatings	180 degree bend, 1/2" mandrel - pass
IMPACT RESISTANCE	ASTM D-2794 Standard Test Method of Resistance of Organic Coatings to the Effects of Rapid Deformation (Impact)	60 inch-pounds direct 6 inch pounds reverse

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03.2011

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# Technical Product Data



## PC6 Series Waterborne Urethane Topcoat

PRECISION COATINGS

### PERFORMANCE DATA

TEST METHOD	SYSTEM (30 day, ambient temp. cure)	RESULTS
ASTM D-3359	Cold Rolled Steel	
Adhesion	Q-Panel	100% retention (no tape off)
	Solvent wipe 02150 Metal Conditioner	
	1.2 mils DFT PC6 Waterborne Urethane Topcoat	
ASTM D-4587	Cold Rolled Steel	Gloss - 82% retention after 1000 hours
QUV Resistance	Q-Panel	delta E color change - 0.7 after 1000 hours
Accelerated Weathering	Solvent wipe 02150 Metal Conditioner	No blistering, rusting, checking or cracking
	1.2 mils DFT PC6 Waterborne Urethane Topcoat	
ASTM B-117	Cold Rolled Steel	
Salt Fog	Q-Panel	No face blistering after 100 hours
	Solvent wipe 02150 Metal Conditioner	No face corrosion after 100 hours
	1.2 mils DFT PC6 Waterborne Urethane Topcoat	
ASTM D-2287	Cold Rolled Steel	
Humidity Resistance	Q-Panel	No blistering, cracking, softening or delamination after 100 hours
	Solvent wipe 02150 Metal Conditioner	Gloss - 88% retention after 100 hours
	1.2 mils DFT PC6 Waterborne Urethane Topcoat	
ASTM D-1308	Cold Rolled Steel	
Chemical Resistance	Q-Panel	Water resistance – rating 5 no effect
24 hour spot test	Solvent wipe 02150 Metal Conditioner	2 % Sulfuric Acid (Acid Rain) – rating 5 no effect
	1.2 mils DFT PC6 Waterborne Urethane Topcoat	
ASTM D-4366	Cold Rolled Steel	
Pendulum Hardness	Q-Panel	Glass = 100s
	Solvent wipe 02150 Metal Conditioner	PC6 Waterborne Urethane 94s
	1.2 mils DFT PC6 Waterborne Urethane Topcoat	
ASTM D-522	Cold Rolled Steel	
Flexibility	Q-Panel	180 degree bend, 1/4" mandrel - pass
	Solvent wipe 02150 Metal Conditioner	
	1.2 mils DFT PC6 Waterborne Urethane Topcoat	

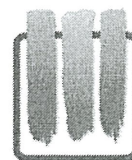
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11//2014

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## Technical Product Data



# **REFLECT 3000** **Infra-Red Reflective Finish Coat**

PRECISION COATINGS

### PERFORMANCE DATA

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 Reflect 3000 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 Reflect 3000 Topcoat	Gloss - Pass after 2020 hours delta E color change - Pass 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 Reflect 3000 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 Reflect 3000 Topcoat	No blistering, cracking, softening or delamination after 500 hours Gloss - 97% retention after 500 hours
ASTM D-4214 Caulk Resistance	Cold Rolled Steel Q-Panel Solvent wipe 02150 Metal Conditioner 1.4 mils DFT Reflect 3000 Topcoat	Rating of 8 minimum
ASTM D-5402 Chemical Resistance solvent rubs	Cold Rolled Steel Q-Panel Solvent wipe 02150 Metal Conditioner 1.4 mils DFT Reflect 3000 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 Reflect 3000 Topcoat	180 degree bend, 1/4" mandrel - pass

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11/2012

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# Technical Product Data



## ***PRECISION DTM 1300v100 SERIES*** ***High Build Modified Epoxy Primer***

**PRECISION COATINGS**

### **PERFORMANCE DATA**

TEST METHOD	SYSTEM (7 day, ambient temp. cure)	RESULTS
ASTM D-3359  Adhesion	Cold Rolled Steel Solvent wipe 02150 Metal Conditioner 2.7 mils DFT DTM 1300v100 Primer 1.6 mils DFT PC3v100 Topcoat	100% retention (no tape off)
ASTM D-4587  QUV Resistance Accelerated Weathering	Cold Rolled Steel Solvent wipe 02150 Metal Conditioner 2.7 mils DFT DTM 1300v100 Primer 1.6 mils DFT PC3v100 Topcoat	Gloss - 98% retention after 2012 hours  delta E color change - 0.33 after 2012 hours  No blistering, rusting, checking or cracking
ASTM B-117  Salt Fog	Cold Rolled Steel Solvent wipe 02150 Metal Conditioner 2.7 mils DFT DTM 1300v100 Primer 1.6 mils DFT PC3v100 Topcoat	No face corrosion nor blistering  after 1000 hours
ASTM D-2287  Humidity Resistance	Cold Rolled Steel Solvent wipe 02150 Metal Conditioner 2.7 mils DFT DTM 1300v100 Primer 1.6 mils DFT PC3v100 Topcoat	No blistering, cracking, softening or delamination  after 1000 hours
ASTM D-1308  Chemical Resistance  24 hour spot test	Cold Rolled Steel Solvent wipe 02150 Metal Conditioner 2.7 mils DFT DTM 1300v100 Primer 1.6 mils DFT PC3v100 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 Solvent wipe 02150 Metal Conditioner 2.7 mils DFT DTM 1300v100 Primer 1.6 mils DFT PC3v100 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 Solvent wipe 02150 Metal Conditioner 2.7 mils DFT DTM 1300v100 Primer 1.6 mils DFT PC3v100 Topcoat	180 degree bend, 1/4" mandrel - pass

8/2012

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# Technical Product Data



## ***PRECISION DTM 1400 Series Non-Sanding Modified Epoxy Primer***

**PRECISION COATINGS**

### **PERFORMANCE DATA**

<b>TEST METHOD</b>	<b>SYSTEM (7 day, ambient temp. cure)</b>	<b>RESULTS</b>
ASTM D-3359  Adhesion	Cold Rolled Steel Solvent wipe 02150 Metal Conditioner  2.5 mils DFT DTM 1400 Primer 1.5 mils DFT PC3/PC-03 Topcoat	100% retention (no tape off)
ASTM D-4587  QUV Resistance Accelerated Weathering	Cold Rolled Steel Solvent wipe 02150 Metal Conditioner  2.5 mils DFT DTM 1400 Primer 1.5 mils DFT PC3/PC-03 Topcoat	Gloss - 95% retention after 2012 hours  delta E color change - 0.47 after 2012 hours  No blistering, rusting, checking or cracking
ASTM B-117  Salt Fog	Cold Rolled Steel Solvent wipe 02150 Metal Conditioner  2.5 mils DFT DTM 1400 Primer 1.5 mils DFT PC3/PC-03 Topcoat	No face corrosion nor blistering  after 1000 hours
ASTM D-2287  Humidity Resistance	Cold Rolled Steel Solvent wipe 02150 Metal Conditioner  2.5 mils DFT DTM 1400 Primer 1.5 mils DFT PC3/PC-03 Topcoat	No blistering, cracking, softening or delamination  after 1000 hours
ASTM D-1308 Chemical Resistance  24 hour spot test	Cold Rolled Steel Solvent wipe 02150 Metal Conditioner  2.5 mils DFT DTM 1400 Primer 1.5 mils DFT PC3/PC-03 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 Solvent wipe 02150 Metal Conditioner  2.5 mils DFT DTM 1400 Primer 1.5 mils DFT PC3/PC-03 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 Solvent wipe 02150 Metal Conditioner  2.5 mils DFT DTM 1400 Primer 1.5 mils DFT PC3/PC-03 Topcoat	180 degree bend, 1/4" mandrel - pass

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4.2011

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## Technical Product Data



### **DTM 1600 Series** **Waterborne Urethane Bonding Primer**

PRECISION COATINGS

#### PERFORMANCE DATA

TEST METHOD	SYSTEM (30 day, ambient temp. cure)	RESULTS
ASTM D-3359 Adhesion	Cold Rolled Steel Q-Panel Solvent wipe 02150 Metal Conditioner 1.5 mils DFT DTM 1600 Primer 1.2 mils DFT PC6 Topcoat	100% retention (no tape off)
ASTM D-4587 QUV Resistance  Accelerated Weathering	Cold Rolled Steel Q-Panel Solvent wipe 02150 Metal Conditioner 1.5 DFT DTM 1600 Primer 1.2 mils DFT PC6 Topcoat	Gloss - 82% retention after 1000 hours delta E color change - 0.7 after 1000 hours  No blistering, rusting, checking or cracking
ASTM B-117 Salt Fog	Cold Rolled Steel Q-Panel Solvent wipe 02150 Metal Conditioner 1.5 DFT DTM 1600 Primer 1.2 mils DFT PC6 Topcoat	No face blistering after 100 hours  No face corrosion after 100 hours
ASTM D-2287 Humidity Resistance	Cold Rolled Steel Q-Panel Solvent wipe 02150 Metal Conditioner 1.5 DFT DTM 1600 Primer 1.2 mils DFT PC6 Topcoat	No blistering, cracking, softening or delamination after 100 hours  Gloss - 88% retention after 100 hours
ASTM D-1308 Chemical Resistance  24 hour spot test	Cold Rolled Steel Q-Panel Solvent wipe 02150 Metal Conditioner 1.5 DFT DTM 1600 Primer 1.2 mils DFT PC6 Topcoat	Water resistance – rating 5 no effect  2 % Sulfuric Acid (Acid Rain) – rating 5 no effect
ASTM D-4366 Pendulum Hardness	Cold Rolled Steel Q-Panel Solvent wipe 02150 Metal Conditioner 1.5 DFT DTM 1600 Primer 1.2 mils DFT PC6 Topcoat	Glass = 100s  PC6 Waterborne Urethane 94s
ASTM D-522 Flexibility	Cold Rolled Steel Q-Panel Solvent wipe 02150 Metal Conditioner 1.5 DFT DTM 1600 Primer 1.2 mils DFT PC6 Topcoat	180 degree bend, 1/4" mandrel - pass

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# Technical Product Data



## ***PRECISION DTM 3000 SERIES Polyurethane Primer***

**PRECISION COATINGS**

### **PERFORMANCE DATA**

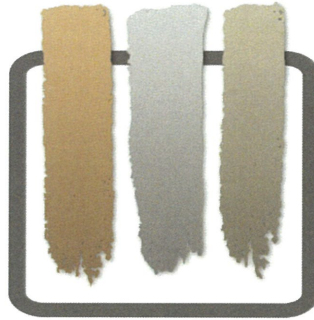
TEST METHOD	SYSTEM (7 day, ambient temp. cure)	RESULTS
ASTM D-3359 Adhesion	Cold Rolled Steel Solvent wipe 02150 Metal Conditioner 1.8 mils DFT DTM 3000 Primer 1.4 mils DFT PC3/PC-03 Topcoat	100% retention (no tape off)
ASTM D-4587 QUV Resistance Accelerated Weathering	Cold Rolled Steel Solvent wipe 02150 Metal Conditioner 1.8 mils DFT DTM 3000 Primer 1.4 mils DFT PC3/PC-03 Topcoat	Gloss - 98% retention after 2012 hours delta E color change - 0.42 after 2012 hours No blistering, rusting, checking or cracking
ASTM B-117 Salt Fog	Cold Rolled Steel Solvent wipe 02150 Metal Conditioner 1.8 mils DFT DTM 3000 Primer 1.4 mils DFT PC3/PC-03 Topcoat	No face corrosion nor blistering after 1000 hours
ASTM D-2287 Humidity Resistance	Cold Rolled Steel Solvent wipe 02150 Metal Conditioner 1.8 mils DFT DTM 3000 Primer 1.4 mils DFT PC3/PC-03 Topcoat	No blistering, cracking, softening or delamination after 1000 hours
ASTM D-1308 Chemical Resistance 24 hour spot test	Cold Rolled Steel Solvent wipe 02150 Metal Conditioner 1.8 mils DFT DTM 3000 Primer 1.4 mils DFT PC3/PC-03 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 Solvent wipe 02150 Metal Conditioner 1.8 mils DFT DTM 3000 Primer 1.4 mils DFT PC3/PC-03 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 Solvent wipe 02150 Metal Conditioner 1.8 mils DFT DTM 3000 Primer 1.4 mils DFT PC3/PC-03 Topcoat	180 degree bend, 1/4" mandrel - pass

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4.2011

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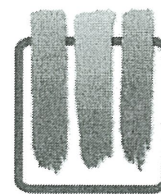


# **PRECISION COATINGS**

## **TECHNICAL GUIDELINES & APPLICATION INFORMATION**

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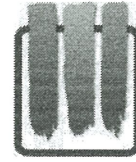
## Precision Coatings

### Standard Sheen Levels\* (At 60 Degrees)

	<u>PC3</u>	<u>PC6</u>	<u>PC5</u>	<u>SlipShield</u>
Gloss	90 +	75 +	90 +	90+
Semi-Gloss	65 $\pm$ 5%	50 $\pm$ 5%	60 $\pm$ 5%	60 $\pm$ 5
Satin	30 $\pm$ 5%	30 $\pm$ 5%	-	-
Eggshell	15 $\pm$ 5%	15 $\pm$ 5%	-	-
Flat	3 – 7	3 – 7	-	-

- Precision Coatings has the ability to custom manufacture to specific sheen levels on a project specific basis. Formulations of custom sheen levels require that strict application standards and dry mill thickness are met. For further questions, please contact your local Precision Coatings representative

July 2014



## GUIDANCE

### ***Metallic and Iridescent Finishes*** ***PC3, PC4, PC5, PC6***

Precision Coatings metallic and iridescent performance coating systems provide special optical effect finishes that go well beyond standard architectural paints. The application of metallic and iridescent finishes is a multi-step process requiring a well thought out procedure, good application skills, ultra-violet resistant primers, specialty application equipment, consistent air supply and an expectation of a production rate that is a fraction of the rate typically used in the application of most opaque architectural paint products. The following process description is designed to assist the commercial coatings contractor in assessing the time and costs that should be considered when estimating the application and material costs of applying metallic and iridescent coatings.

#### **Geometry of Substrate and Mock-Ups**

Before the application of a metallic or iridescent coatings, the geometry of the substrate and the actual ambient environmental conditions must be considered. Difficult shapes, angles and hard to reach areas that pose a problem for the applicator to keep the gun perpendicular to the surface must be assessed. A plan should be developed to work with the geometry and a field mock-up should be provided so all parties have the same level of expectation for the finish.

#### **Primers and Base Coats**

Metallic and iridescent coatings are translucent, ultraviolet light will penetrate through the coating to the primer. It is essential that the primer or the base coat fully resist ultra-violet light. DTM 1300, DTM 1400, DTM 1600 and DTM 3000 are all designed to resist long-term exposure to ultraviolet light. Conventional epoxies and alkyds should never be used for exterior applications under metallic and iridescent coatings unless an ultra-violet "blocking" coat is used as an intermediate coat.

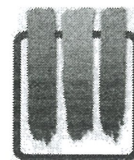
The primer or the base coat should be applied over the entire substrate to achieve a consistent background color for the finish coats. The color of the primer or base coat should be selected to enhance the finish coat given that the finish coat is translucent. A gray primer is an excellent background for a silver metallic finish.

#### **Air Supply**

The constant flow of air in terms of volume and pressure is essential for the successful application of metallic and iridescent coatings. The metallic flakes (aluminum) and iridescent chips (mica) layout in the resin system dependent on the way the coating is applied to the substrate. Inadequate air volume or inconsistent air pressure will result in the misalignment of the flake pattern resulting in a splotchy appearance.

#### **Selecting the Correct Surface Preparation and Primer for the Substrate**

Surface preparation and primer vary by substrate and service. Carbon steel, aluminum, galvanized steel, stainless steel and other substrates including previously coated surfaces all have different surface preparation requirements and priming requirements. Review the Precision Coatings primer and finish coat product data sheets to ensure the correct cleaning, surface preparation, primer and coating processes are being used to meet the substrate and service condition requirements.



## Application Equipment

PRECISION COATINGS

### Gravity Feed HVLP versus Conventional HVLP Pressure Pot

In the automotive refinish market where most manual applied metallics and iridescent coatings are used, the gravity feed HVLP gun is the choice of applicators. The advantage of the gravity feed gun is that the consistency of the metallic dispersion in the application stream helps to eliminate pigment striping that can be experienced with conventional HVLP pressure pot systems. HVLP pressure pot application can be successful, but air pressure, air flow and applicator skill is more demanding to those using a pressure pot set-up.

### Fine Finish Air-Assist Airless

Good success has been noted by applicators using air assist airless fine finish equipment. This type of equipment has proven to deliver metallic and iridescent pigments to the surface in an even pattern.

### HVLP Turbine (Cap) Spray – NOT RECOMMENDED

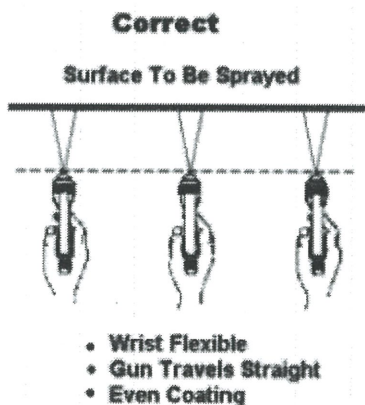
### Airless – NOT RECOMMENDED

### Roller application – requires special consideration

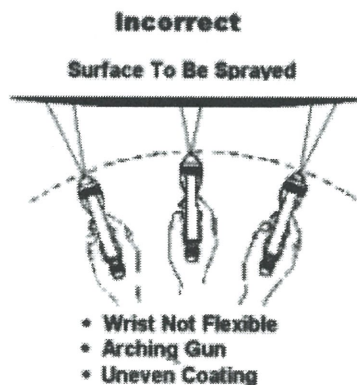
Some projects have been roller applied successfully (*Please contact your Precision technical sales representative for recommendations*). The success of a roller application depends on the substrate and the size of the area being coated. The level of expectation for the appearance of the rolled metallic or iridescent finish should be significantly less than the comparable spray application.

### The Applicator

The most important component of a successful application of a coating system is the applicator. A skilled applicator who understands the detail and precision required to successfully apply a metallic or iridescent three-dimensional coating system is more an artist than a painter. Success depends on staying in front of your work, keeping the gun perpendicular to the surface, moving into or away from the work to achieve the proper dispersion of the metallic flakes or iridescent chips in the coating film while maintaining proper orientation of the pigment.



Application of metallic and iridescent pigments is impacted by distance from the substrate. The closer the gun is to the substrate, the more the pigment will bury in the resin system resulting in a darker and sometimes a deeper appearance. The further away the gun is from the substrate the more the pigment will lie on the top of the coating resulting in a brighter appearance. The same material applied by the same applicator the same day at different distances from the substrate can substantially change the color and appearance from the same gallon of metallic or iridescent coating



## Technical Product Data



PRECISION COATINGS

### Finish Coat Process

**Precision PC3, PC4, PC5, PC6**

**Metallic or Iridescent Color Applications**

#### **Tack Coat**

The tack coat is a light coat that is applied to the surface to promote adhesion of successive coats. This coat covers the surface but does not fully wet out the substrate as the coating will have a light, uneven and transparent appearance.

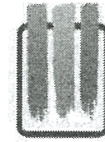
#### **Wet Coat One**

The first wet coat is applied over the tack coat approximately 10 to 20 minutes after the application of the tack coat. This coat wets out the surface and presents an even appearance however the coating can still appear to be transparent.

#### **Wet Coat Two**

The second wet coat is usually the final coat and is applied 10 to 20 minutes following the application of the first wet coat. This coat should wet out the surface, present an even appearance and with the exception of very few colors, should provide complete coverage and hide.

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## Applying Metallic Finishes to Roofs:

The coating of a metal roof with Precision Coatings performance coatings offers the building owner the ability to refurbish or upgrade the facility with the look and sophistication of metallic finishes. Besides the standard surface preparation required for coating any metal surface, roof application of metallic finishes can often add an additional level of complexity to the project.

The slope of the roof, access to the roof, weather conditions, and public activity in the vicinity of the roof must all be taken into consideration when assessing the viability of the project. Most critical is that the roof must be fully accessible to the applicator who is applying the material via spray. In short, the applicator must be able to walk/work on the roof. Attempting to work from a lift where the applicator leans, kneels or lays on the lift to apply the metallic finish is not recommended. Three reasons for this exist: (1) the distance from the spray gun to the roof surface must be consistently maintained or fixed (2) the spray gun must be kept perpendicular to the surface, and (3) the applicator needs to be able to move seamlessly over the work area that is being coated. If the applicator is forced to start and stop and change his distance and angle from the surface, an uneven application will most likely occur and will probably result in what is often referred to as "Tiger Striping".

Besides requiring actual roof access for the applicator, the coating of a metal roof with a metallic finish also requires that weather conditions and the proximity to other facilities and motor vehicles must be taken in to consideration. By their nature, metallic finishes are generally lighter and finer than traditional solid body coatings and thus can more easily become airborne and move some distance as a result of excess material being "over sprayed".

It is recommended that a field mock-up of the coating system be prepared on a portion of the project so that all participants of the project team have the same level of expectation regarding finish, color, sheen and appearance. The mock-up should be retained and accessible to serve as a standard for the completed project.

Date: December 21, 2013



# Precision Coatings

## Metallic Finishes Application Plan

Precision Coatings offers the project design team and the applicator an outstanding line of metallic and iridescent finishes that may be field applied for both interior and exterior applications across a variety of substrates. These finishes have excellent adhesion and chemical and abrasion resistance, and are low VOC.

In considering the introduction of the metallic and iridescent finishes into a project, consideration should be given to substrate appearance and preparation, access to the substrate, ambient conditions, equipment requirements and the skill level required of the applicator to optimize the application, performance and appearance of the coating system. It is recommended that a field mock-up of the coating system be prepared on a portion of the actual substrate in advance of commencing the coating portion of the project so that all participants of the project team have the same level of expectation regarding finish, color, sheen, and appearance. Such a field mock-up will allow all to agree in advance on the expectations that can be achieved given actual field conditions. The mock-up should be retained and accessible to serve as a standard for the completed project.

These metallic and iridescent finishes provide the project design team and the applicator with the opportunity to introduce special optical effect finishes that go well beyond that offered with traditional architectural paints such as solid color acrylic/latex paints. Metallic and iridescent finishes are translucent or clear resin systems with three-dimensional pigments that layout in a pattern that is dependent on the skill level of the applicator and application technique employed. For optimum appearance, metallic finishes should be spray applied utilizing appropriate equipment and a consistent air supply and flow rate of the pigment through the spray gun. For detailed metallic and iridescent application instructions, see Precision's Metallic and Iridescent Guidance.

August 25, 2014



PRECISION COATINGS

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## Guidance

### PC6 Single Component Waterborne Urethane Application Techniques

Precision Coating's PC6 offers the applicator a very durable, low odor, single component waterborne urethane that is available in metallic, iridescents and solid colors across the full spectrum of sheens in an easy to apply pre-reacted performance resin system. PC6 is ideal for both interiors and exteriors of occupied commercial, hospitality, school and health care structures. The PC6 pigments, like all Precision Coatings finishes, are based upon high grade automotive pigments so colors will be true and provide extended lifecycle service. PC6 is less than 50 grams per liter VOC and LEED 2009 compliant.

Recently, Precision Coatings personnel had the opportunity to instruct a contractor in the correct application of PC6's metallic finish - Platinum. The contractor was interested in PC6 because he was scheduled to spray elevator doors in an occupied commercial office building in West Los Angeles and was concerned about odor and dry time. Moreover, the contractor's applicators, had never successfully been able to spray metallic coatings but given the amount of TI work the firm does in mid-rise and high-rise office towers in the Los Angeles market they needed a solution. We suggested PC6 due to its ease of application and the environmental issues of applying performance coatings in occupied space.

To build the contractors confidence, an application mock-up area was set up in an office interior. Upon opening the can of PC6, one will notice the extremely low odor. The contractor's application team was instructed on the proper technique for applying PC6 including insuring that the gun always stays perpendicular to the work and is kept the same distance from the work throughout the application. (See Precision's Guidance on Metallic and Iridescent Finishes Spray Application Techniques). Then the contractor was advised that it is important to stir the container of PC6 metallics making sure that all the metallic flake is off the bottom of the can before the gun was filled with material. Next, the contractor was instructed to apply a light tack coat keeping the gun about ten inches away from the work and then immediately apply a wet coat, also at ten inches distance. The resulting mock-up panel had no tiger striping or other issues. It was beautiful when it dried.

On a second mock-up panel, the contractor applied a light coat and followed with the wet coat, he applied the material at various distances and with the gun not completely perpendicular. The applicator was becoming comfortable with PC6 and was testing what he could and could not do with the material. The tiger striping appeared. To address the tiger striping, the applicator was instructed to pull back about eighteen inches and overspray the entire panel which then removed the tiger striping. The applicator continued to experiment by putting a coat on the top of the panel only four inches from his work and where he had a wet thickness of greater than twenty mils resulting in the PC6 sagging.

The gun and overspray were cleaned with water.

After fifteen minutes the mock-up panels showed signs of drying from the edges and tops first and then the centers of the panels. The wet surfaces looked fluffy and had orange peel, but as the surface dried, the material tightened up and was very smooth. At thirty minutes, the dry appearing surfaces were dry to touch. During the application of PC6, very little odor was present. Furthermore, by the time the contractor finished cleaning his equipment, there was no smell of the coating that had just been applied.



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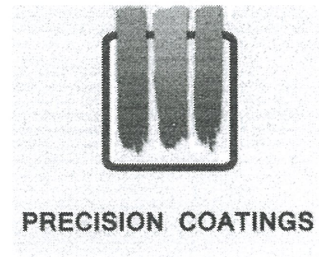
Points to consider when applying PC6 Metallic:

- Have the right spray equipment with adequate volume and air pressure and volume (see Precision's PC6 product data sheet for suggested spray gun set-up & pressure settings).
- Stir or shake the PC6 to insure the metallic flake is off the bottom of the can.
- PC6 Metallic is applied with the gun perpendicular to the substrate and the same distance from the substrate maintained throughout the application.
- The typical distance is between 10" – 12" between the gun and the substrate
- PC6 goes on a bit fluffy with some orange peel, but as it dries it lays out smooth.
- After about fifteen minutes PC6 will start drying from the edges.
- At thirty minutes, the dry appearing areas should be dry to the touch.
- PC6 is ready to spray right out of the can but, if thinning is desired, it can be thinned with distilled water up to 6 ounces per gallon.



The photo above illustrates a recent application of PC6 (color Silver Frost - #2300) at a retail outlet of a major electronics store. The challenge was to redo the interior and exterior window mullions and doors, which were originally red, during the off hours without having to evacuate the store or delay the reopening of the store the following day.

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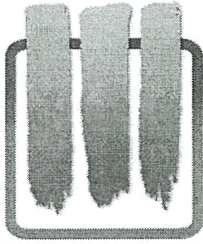


## **Electrostatic Application**

Precision Coatings DTM primers and PC3 finishes in solid colors, metallics and iridescents can be applied by electrostatic air application using equipment such as the Graco Pro X electrostatic air spray gun.

- Equipment and parts being coated should be properly grounded for application.
- DTM primers and PC3 topcoats and clear coats should be mixed according to manufacturer's instructions and then reduced 10% with acetone to achieve proper polarity.
- Electrostatic gun should be operated according to the manufacturer's equipment specification.

Electrostatic rotary bell guns do not work with metallic or iridescent colors, however solid colors can be applied using an electrostatic rotary bell application.



PRECISION COATINGS

## Refinishing Fluorinated Polymer Surfaces

Fluorinated polymer coated surfaces such as curtain wall panels, mullions, roofs, doors and windows can be refinished utilizing Precision DTM1300 / PC3 or DTM 1300 / Reflect 3000 infra-red reflective coating systems. ***Proper surface preparation of the fluorinated polymer coated surface is required in order to achieve adequate adhesion.***

### Surface Preparation Method Hand Tool / Power Tool Clean

New and aged surfaces should be cleaned and degreased. The surface should be abraded with a thorough hand tool and power tool cleaning (SSPC-SP2 or SSPC-SP3) using aluminum oxide abrasive paper of 180 to 100 mesh size.

See data sheets for Precision Coatings DTM1300, PC3 and Reflect 3000 infra-red reflective coatings for application and safety information.



PRECISION COATINGS

## Guidance: Care and Maintenance of EeZeClean Dry Erase Surface

EeZeClean Dry Erase Coating is a high performance, chemical resistant coating with excellent ink release properties designed to produce an outstanding writing surface for dry erase markers.

### Installation

EeZeClean must be properly mixed, applied and cured in order to perform as a dry erase surface. EeZeClean is a two component weatherable modified epoxy that is mixed four parts resin to one part activator. Under or over activation of the material will result in improper cure.

The recommended dry film thickness (DFT) for EeZeClean is 3 to 5 mils. Application of EeZeClean above or below the recommended DFT may result in lessened performance or extended dry times. If the dry film thickness is less than the 3 mils, clean the surface, slightly abrade the substrate and recoat to obtain a 3 to 5 mil DFT. If a coating application results in a dry film thickness greater than 5 mils, the coating may require additional curing time before the finish is ready for service. If either of these conditions exists, it is recommended that a test be performed before placing the dry erase surface into service.

The recommended cure time before writing on the EeZeClean surface with a dry erase marker is 5 days at a temperature of 70 degrees Fahrenheit. Cure times will be extended if ambient temperatures during the curing process fall below the recommended cure temperature.

### Dry Erase Pens and Dry Erase Markers

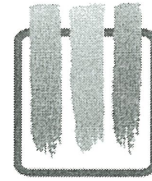
Dry erase ink markers are similar to permanent ink markers in formulation of the inks with the exception that the dry erase ink contains a surfactant that makes the ink more erasable while the surfactant exists in the ink film. The surfactant dries out of the ink film over the course of four to five days resulting in a relatively permanent ink stain often described as "Ghosting." To remove the dried ink stain, "Ghosting," write over the original ink with a dry erase marker and the surfactant will penetrate the ink film and the ink will once again be erasable. On EeZeClean Dry Erase walls, due to enhanced chemical resistance you can use a dry erase board cleaner or more chemically active solvent such as isopropyl alcohol or a commercial cleaner such as Krud Kutter® Original to remove dry erase ink residues.

### Maintenance

As recommended by most manufacturers, dry erase coated surfaces need a regular cleaning to remain dry erase. Dry erase marker residues build up on the surface of dry erase walls over time and reduce the ink release properties. To remove ink residue and keep the dry erase properties optimized on walls that are used daily we recommend a weekly cleaning with a micro-fiber cloth and a suitable cleaner such as Krud Kutter® Original, a dry erase cleaner or isopropyl alcohol. Never use an abrasive cleaner or abrasive cloth to clean a dry erase coating.

### EeZeClean Ink Release Properties

EeZeClean is formulated with a unique modified epoxy polymer that when fully cured will easily release dry erase inks long after the dry erase ink surfactant has evaporated. This allows dry erase inks to remain on the surface of EeZeClean days and even weeks longer than other dry erase coatings and paints. Should any staining or ghosting appear, we recommend the use of a micro-fiber cloth and Krud Kutter® Original or isopropyl alcohol to return the EeZeClean surface to its original appearance with optimized dry erase performance properties.



## Guidance

Application and Maintenance of Precision's SlipShield 1000

**PRECISION COATINGS**

SlipShield 1000 is a slip resistant sealer that can be applied to interior and exterior tile, polished stone, polished concrete, coated flooring, metal decking and selected interior wood substrates to improve slip resistance in both dry and wet environments. SlipShield 1000 is an extended lifecycle weatherable sealer that creates a consistent polymeric structure throughout the film. This polymeric structure provides slip resistance as long as the film remains on the surface of the substrate, whether new or worn, through several years of traffic. SlipShield 1000 is available in both clear and solid coats in gloss, semi-gloss, satin, eggshell and matte finishes. SlipShield 1000 clear provides a weatherable, ultra-violet resistant surface that allows the uncompromised structure and beauty of tile, polished stone and polished concrete to show through while slip resistance is increased for improved safety.

### Application

SlipShield 1000 is designed to be applied by a professional coating applicator. It is recommended to be applied by floor coating applicator pad. Floor applicator pads and coaters that are designed for solvent based epoxies and urethanes are recommended as they provide a smooth, uniform finish. Pad applicators provide an excellent means to apply a uniform coating of SlipShield 1000 on the substrate by aiding in eliminating orange peel, bubbles and roller tracks often caused by other application methods including application by roller. The lint free nature of most pads applicators also eliminates the possibility of shedding that may result with the use of a roller. If a roller is used, it is recommended that a 3/16" or 3/8" nap phenolic core roller cover be employed that is shed resistant and designed for solvent based epoxies or urethanes. SlipShield 1000 should be applied wet in one coat to achieve 3 mils to 5 mils film thickness.

When applying SlipShield 1000 with a gloss sheen level to very smooth interior surfaces such as polished concrete, stone or marble, it may be necessary to polish SlipShield 1000 to achieve a lint and dust free surface due to the fact that dust and other debris may become imbedded on the SlipShield 1000 during application and the drying process. After allowing the Slip Shield 1000 to cure 48 hours, abrade SlipShield 1000 using 1500 grit diamond impregnated pads with a high speed burnisher. Then polish SlipShield 1000 using a liquid polishing compound (silicone free) with a wool floor pad at 1200 rpm using a high speed burnisher. After final polishing, damp mop to remove all excessive dust and debris.

*Do not abrade or polish SlipShield 1000 with sheen levels less than full gloss.*

If added slip resistance is desired, Precision's SlipShield Aggregate may be added to SlipShield 1000. SlipShield Aggregate is designed to improve the slip resistance of the substrate. While continually stirring, add SlipShield Aggregate at the rate of 3.2 oz. per gallon kit or 16 oz. per five gallons. Additional SlipShield Aggregate may be added but should not exceed 8 oz. per gallon. Stir while adding SlipShield Aggregate to the SlipShield 1000. The product may float at first, but once the aggregate wets out, it will mix well. Occasionally stir during application to ensure that the aggregate remains suspended in the

SlipShield sealer. When SlipShield 1000 is being applied with SlipShield Aggregate, a roller application works best.

Prior to the actual application of SlipShield 1000, the technical product data sheet should be reviewed. The substrate must be dry and free of dirt, dust, lint, grease, oil, wax and other contaminants. SlipShield 1000 has a low medicinal odor during application. Areas sealed with SlipShield 1000 can be returned to light to moderate pedestrian traffic service in 24 – 48 hours at 70 degrees Fahrenheit.

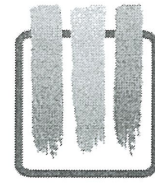
### **Maintenance**

SlipShield 1000 can be cleaned and maintained with water and a mild non-abrasive detergent cleaner. In order to optimize and maintain its slip resistant properties, SlipShield 1000 should not be waxed.

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9/2011



## PRECISION COATINGS

### Guidance

#### Lint & Dust on SlipShield 1000

SlipShield 1000 is a slip resistant (High Traction) coating that can be applied to interior and exterior tile, polished stone, polished concrete, coated flooring, metal decking and selected interior wood substrates to improve the static coefficient of friction in both dry and wet environments.

SlipShield 1000 is an extended lifecycle weatherable coating that creates a consistent polymeric structure throughout the film. This basic polymeric structure continues to provide its performance characteristics as long as the film remains intact on the surface of the substrate, whether new or worn, through several years of traffic.

SlipShield 1000 is available in both clear and solid colors in gloss, semi-gloss, satin, eggshell and matte finishes. SlipShield 1000 clear provides a weatherable, ultra-violet resistant surface that allows the uncompromised structure and beauty of tile, polished stone and polished concrete to show through while the static coefficient of friction is improved.

When applying SlipShield 1000 with a gloss sheen level to very smooth interior surfaces such as polished concrete, stone or marble, it may be necessary to burnish the coating to remove any dust or other debris that may have become lodged on the surface of SlipShield during the drying process. After allowing the Slip Shield 1000 to cure 48 hours, abrade SlipShield 1000 using 1500 grit diamond impregnated pads with a high speed burnisher. Then buff SlipShield 1000 using a liquid polishing compound (silicone free) with a wool floor pad at 1200 rpm using a high speed burnisher. After final buffing, damp mop to remove and excess polishing compound and any excessive dust and debris.

*Do not abrade or polish SlipShield 1000 with sheen levels less than full gloss.*

### Maintenance

SlipShield 1000 can be cleaned and maintained with water and a mild non-abrasive detergent cleaner. In order to optimize and maintain its slip resistant properties, SlipShield 1000 should not be waxed.

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