

Technical Product Data



PRECISION COATINGS

PC3v100 Series Acrylic Polyurethane: Tint Base System

DESCRIPTION

Multi-Base Metallic Tint System
Aliphatic polyurethane
Interior and exterior surfaces
Field and shop application
Low VOC
USGBC LEED Version 4 Compliant

Compatible with Chromaflo 844 Colorants
Gloss, semi-gloss, satin, eggshell, matte
Metallic colors
Chemical resistant
Superior weathering and durability
Anti-graffiti formulation available

TECHNICAL DATA:

% SOLIDS by volume	34% as packaged, 38% as applied
COATING VOC (as mixed with the PC03 Activator without colorant)	Less than 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	2.0 mils to 3.0 mils
THEORETICAL COVERAGE	609 – 203 sq ft at recommended DFT (no loss)

Precision Coatings PC3v100 Acrylic Polyurethane Tint Base System consist of a three-base solid color and a three-base metallic color system. Precision's PC3v100 is a two-component solvent borne acrylic polyurethane that consist of a short-filled gallon of a Part A resin and a quart of a Part B Activator. When mixed together, Parts A and B yield an activated gallon of PC3v100 Acrylic Polyurethane with a three-hour pot-life. Both tint systems are available in all standard Precision Coatings sheens including gloss, semi-gloss, satin, eggshell and matte/flat and are designed to be used with Chromaflo's 844 Industrial Colorants. For detail instructions on tinting, see Precision's Guidance PC3 and PC6 Solid and Metallic Tint Systems

PC3 – Two Component Solvent Borne Acrylic Polyurethane: Solid Color Tint System

TINT BASES:

Precision Coatings offers three Part A tint bases for custom tinting solid colors in PC3. Each Part A tint base is available in the full range of Precision's sheens including: Gloss, Semi-Gloss, Satin, Eggshell and Matte/Flat.

- A. Light Tint Base: Used for light colors – up to 4 ounces of colorant is added.
- B. Deep Tint Base: Used for medium colors – up to 8 ounces of colorant is added.
- C. Neutral Tint Base: Used for deep and bright colors – up to 16 ounces of colorant is added. This base has no white pigment. Bright colors formulated with the Neutral Tint Base may require multiple coats for adequate hiding.

COLORANTS:

Suggested Colorant System: Chromaflo Chroma-Chem 844 Colorants

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PC3 - Two Component Solvent Borne Acrylic Polyurethane: Metallic Tint System

TINT BASES:

Precision Coatings offers three Part A tint bases for custom tinting metallic colors. Each tint base is available in the full range of Precision's sheens including: Gloss, Semi-Gloss, Satin, Eggshell and Matte/Flat.

- A Silver Mist Tint Base
- B Platinum Tint Base
- C Chrome Silver Tint Base

Each Part A base of the PC3 Metallic Tint System is short filled to 88 fluid ounces to allow for up to 8 fluid ounces of colorant to be added per gallon.

COLORANTS:

Suggested Colorant System: Chromaflo Chroma-Chem 844 Colorants

VOC CONTENT:

The Coating VOC of Precision's PC3v100 Solid and Metallic Tint Bases (as packaged less water & exempt compounds) are all less than 20 g/l. The Coating VOC (as applied with colorant added less water & exempt compounds) of each of Precision's published Metallic Tint Base Color Formulas are less than 100 g/l.

The Coating VOC when using 100% of the highest VOC Chromaflo 844 colorant with one of the PC3v100 Solid and Metallic Tint Bases is less than 105 g/l (as applied less water & exempt compounds).

- Note:
- (a) The VOC of all Precision Coatings PC3v100 Metallic colors as manufactured by Precision Coatings in its facilities are all less than 50 g/l (less water & exempt compounds).
 - (b) The PC3v100 Metallic Tint Bases do not meet the definition of a metallic coating as defined in most air districts and defined by the SCAQMD and CARB.

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.

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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. PC3v100 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.

INSTRUCTIONS – MIX RATIO:

After colorant has been added, stir or shake Parts A & B before mixing together. Mix thoroughly 3 parts PC3v100 Acrylic Polyurethane Topcoat with 1-part PC-03 Polyurethane Activator just prior to beginning application.

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 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: Metallic colors should be applied by spray application only. Allow a 5 to 10-minute flash time between coats if spray applied. PC3v100 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

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

DISCLAIMER: The technical information and suggestions for use have been compiled for your guidance and usage. Such information is based on Precision Coatings, Inc. experience and research and is believed to be reliable. As PCI has no control over conditions in which the product is used, stored, or otherwise handled, the above information does not constitute a warranty. Buyers must assume responsibility for the suitability of the product for their purposes.

5/01/2019

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