
P R O D U C T D A T A

***PC3 Acrylic
Polyurethane Topcoat***

DESCRIPTION:

PC3 Acrylic Polyurethane Topcoat is a high performance aliphatic, acrylic polyurethane coating system designed for performance demanding markets such as OEM and aftermarket transportation, architectural applications, industrial and general metal applications, aviation, marine, specialty industrial maintenance, wood finishing, and engineered plastics applications. This is a conventional system employing the use of a long standing chemistry known throughout the industry for its superior weathering and exterior durability, chemical resistance and extreme protective properties. The PC3 system is available in an unlimited color range including metallics, iridescent (pearls), and solid colors, all available in high gloss, semi-gloss, satin, eggshell, and matte finishes.

TECHNICAL DATA:

% SOLIDS by volume:	34 % as packaged, 38 % as applied
SPRAYABLE V.O.C. (as applied):	available in 2.8 lbs/gal, & 3.5 lbs/gal systems (less water & exempt compounds)
COMPONENTS:	PC3 Topcoat (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	65°F, 18°C
MIX RATIO:	3:1 (3 parts PC3 Topcoat: 1 part PC-03 Activator)
THEORETICAL COVERAGE:	609 sqft/gal at 1.0 mil (theoretical, no loss)

SURFACE PREPARATION:

Best results are achieved when PC3 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.

PC3 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 wood. Recommended preparation is as follows: Clean the surface of all foreign material SSPC-SP1 and SSPC-SP2 or SSPC-SP3. SSPC-SP13 may be used for masonry block. Physically abrade existing coated surfaces. PCI's 16200 Paint Prep may also be used to treat existing finishes, including polyurethane finishes. Paint Prep eliminates the need for abrasion before priming or painting. The existing finish must be tightly adhered to the substrate. PCI's 02150 Metal Conditioner may be used to clean and treat metal substrates prior to priming or painting to eliminate grease, oil, and flash rusting.

BENEFITS:

- Excellent exterior weathering durability
- Mirror image high gloss (all gloss ranges available)
- Superior chemical resistance
- Exceptional color retention
- Excellent abrasion resistance
- Unlimited color offering including metallics and pearls
- All colors are lead and chromate free

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INSTRUCTIONS – MIX RATIO:

Stir or shake thoroughly to ensure uniform mixture. Mix 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 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 topcoat.

For fisheyes or other related surface defects, add 1 oz of PCI's Fisheye Remover, #15000, per ready to spray 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 1.5 to 3.0 mils DFT. May be brushed or rolled for field service applications. Use a natural bristle brush or ¼ inch to ½ inch nap roller.

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
Airless Spray	.015” - .025”	2500 PSI 100 mesh filter
Brush – natural bristle		
Roller – ¼ to ½ inch nap		

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:	140° F for 20 min. Allow a 10 min. cool down time.

CLEAN UP:

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

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

DISCLAIMER: The technical information and suggestions for use have been compiled for your guidance and usage. Such information is based on 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.

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P R E F O R M A N C E D A T A

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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 PC3/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 PC3/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 PC3/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 PC3/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 PC3/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 PC3/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 PC3/PC03 Topcoat	180 degree bend, 1/4" mandrel - pass

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