

# XS-PC12



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# XS PC12

## HTBRID SOLVENT POLYUREA COATING

### DESCRIPTION

**XS-PC12** is a specially formulated two component, 59% solids hybrid solvent based polyurea coating designed for application over completed concrete surfaces. **XS-PC12** provides a low VOC (400 g/L), penetrating, film forming, color enhancing, and high gloss wear surface. The high performance clear top coat generates the premier balance of strength, flexibility, chemical and scratch resistance. **XS-PC12** is ideally suited for both commercial and residential settings applied upon concrete countertops, fireplace surrounds, shower panels, floor tiles, wall panels, and all **Xtreme Series** materials. Like some other sealers, **XS-PC12** becomes food safe upon curing. It is stain resistant to most household chemicals and culinary items, and is heat resistant to 300°F (149°C). **XS-PC12** is distinctive in its ability to be touched up or repaired.

### SURFACE PREP

The principles for surface preparation for **XS-PC12** are aligned with other coating systems placed on **Xtreme Series** materials or concrete, the substrate must be:

- 1. Cured:** Before sealer application, **Xtreme Series** cast products must hydrate out of the mold for a minimum of 12 hours depending on temperature & humidity. Any standard concrete must be sufficiently cured to have complete hydration, approximately 14 days depending on temperature & humidity.
- 2. Clean:** The surface must be free of dust, dirt, oil, grease, paints, glues, sealers, curing agents, efflorescence, chemical contaminants, rust, algae, mildew and other foreign matter that may serve as a bond breaker or prevent proper adhesion. Clean surface with **SCR** in a dilution rate of 3 parts water to 1 part **SCR** (water: **SCR**; 3:1). After cleaning, allow surface to completely dry. For specific directions on cleaning refer to the TDS of **SCR**.
- 3. Profiled:** For **Xtreme Series** cast products and standard concrete, the proper profile is achieved through cleaning with **SCR** as described above. For polished pieces, like terrazzo, do not polish in excess of 400 grit, so that suitable profile is maintained for adhesion. **XS-PC12** may be applied upon densified concrete. For specific directions on densifying, refer to the TDS of **LD1800**.

### TEMPERATURE/CURE

Apply in ambient and surface temperatures ranging above 60°F (16°C) and below 90°F (32°C) and that will remain within ranges for at least 12 hours. Avoid application during wet, foggy weather.

Maximum pot life	30 minutes
Ready for recoat	Dry to the touch
Recoat "window"	After 12 hours sanding required
Light duty use	24 hours
Full use	48 hours
Complete cure	7 days



### PACKAGING

- 1 quart kit
- 1 – 1 quart (.9 liter) short filled can part A (containing 24 oz. [.7 liter])
- 1 – ½ pint (.2 liter) can part B (containing 8 oz. [.2 liter])

### MIXING RATIO

3:1 (3 part A to 1 parts B)

### COVERAGE

Approximately 100 ft<sup>2</sup> per qt. (9.3 m<sup>2</sup> per 0.9 L) per coat  
4 mils wet; 2.4 mils cured

### SHELF LIFE

Under normal, moisture free conditions 12 months for unopened container.

### APPLICATION

#### Planning

- 1. Product is flammable**, turn off all fuel burning appliances and pilot lights. Be certain there are no potential sources of ignition.
- 2. Provide for ventilation** so that vapors do not accumulate. This product should not be sprayed or atomized.
- 3. Select appropriate PPE** (personal protection equipment). Use of a NIOSH approved respirator is required. Refer to SDS.
- 4. Elevate the surface** to be sealed above the supporting table, so that all edges can be conveniently sealed without dragging the roller across the supporting table.

#### Mixing and handling

- 1. Organize mixing area** with appropriate measuring cups or spoons if portions of a kit are to be utilized. Once A and B are mixed, the product should be placed within 30 minutes.
- 2. Pour 1 part B** into clean mixing vessel containing 3 parts A. To prevent moisture from entering product, reseal kits immediately after use. When resealing a partially used kit, clean any excess product from edge of can with xylene.
- 3. Mechanically mix parts A** and B for 2 minutes at slow to medium speed with a jiffy style mixer being careful not to introduce bubbles. After the 2 minute mix time the product is now catalyzed.
- 4. Clean out or replace** mixing and measuring containers and mixer blades in a reasonable fashion, so that the chemistry of A and B remain consistent. Xylene cleans up containers and product well prior to curing. Roller covers should not be reused for subsequent coats.

#### First coat

- 1. Clean surface** to be sealed of dust or contaminants with xylene on micro-fiber rag.
- 2. Utilize 4" – 6"** (10 – 15 cm) high density foam roller, such as found at home centers, and identified as "door and cabinet" roller.

3. **Apply to vertical edge profiles first.**
4. **Pour out** enough product upon the surface, to wet the roller and cover a manageable area.
5. **Roll product** in sections so that backrolling can be accomplished before product begins to tack.
6. **Product has self-leveling** characteristics. Do not overwork. Upon backrolling if no roller marks are visible, leave surface alone.
7. **Do not puddle.** Push any excess amount of sealer from the surface.
8. **Product will not bridge,** rough, open surfaces and pinholes.
9. **Imperfections** may be touched up for several minutes. Due to relative quick cure, if bubbles form while touching up the surface, leave it alone. Imperfections and lap lines must be sanded out, as they will show up in subsequent step.
10. **Allow to dry** sufficiently to proceed to next step. Surface must be completely dry and tack free. Wide variance in dry time can occur due to temperature, humidity, and surface texture.

### Second Coat

1. **If first coat** is dry to the touch, proceed with second coat.
2. **If first coat** has cured beyond 12 hours, it must be sanded with 220 grit sand paper by hand or with an orbital sander. This sanding will ensure not only a good bond between coats, but also eliminate any imperfections, debris, or dust that may have settled onto the first coat as it was drying. Clean surface with compressed air or lint-free rag.
3. **Second coat** applies exactly as first coat described above.

**24 hours after** application of second coat, surface is ready for light duty use.

**48 hours after** application of second coat, surface is ready for full use.

**7 days after** application of second coat, complete cure is achieved.

### SUITABILITY SAMPLE

Always prepare an adequate number of test areas, including wear protection system and aesthetic suitability for products' intended use.

### CLEAN-UP

Before **XS-PC12** dries; spills and tools can be cleaned up with a solvent such as xylene.

### DISPOSAL

Contact your local government household hazardous waste coordinator for information on disposal of unused product. Upon curing, left over catalyzed product is not hazardous.

### LIMITATIONS

For use by trained professionals that have read the complete SDS.

### WARRANTY

Warranty of this product, when used according to the directions, is limited to refund of purchase price, or replacement of product (if defective), at manufactures/seller's option. SureCrete Design Products shall not be liable for cost of labor or direct and/or incidental consequential damages.

### CAUTIONS

**KEEP OUT OF REACH OF CHILDREN.** Product is flammable. Avoid sources of ignition. Keep areas ventilated to prevent the accumulation of vapors. **Inhalation:** Use NIOSH approved respirator for organic vapors. **Skin Contact:** Skin contact may cause irritation. Remove contaminated clothing and wash affected skin with soap and water. Launder clothing before reuse. If symptoms persist, seek medical attention. **Eyes:** Wear safety eye protection when applying. If contact occurs, flush eyes with water for 15 minutes, seek medical attention.

### TEST DATA

Appearance (cured)	Clear gloss sheen
Water Resistance	Excellent, beads water
Mechanical Stability	Excellent
Light Stability	Excellent
Solids	59%
Storage Stability	1 year
Appearance (wet)	Clear
Odor	Aromatic
Application Temperature	60°F – 90°F (16°C - 32°C)
VOC content	400 g/L
Pot life	approximately 30 minutes
Gardener direct / reverse impact	>160 inch pounds
Taber abrasion	40-60 mg loss
QUV – A	<5.0 @ 2000 hours
Gloss retention	>95% @ 2000 hours

### CHEMICAL RESISTANCE

Industrial Chemicals	24 hours
MEK (methyl ethyl ketone)	no effect
Xylene	no effect
Tap Water	no effect
Mineral Spirits	no effect
100% Ethanol	no effect
10% acetic acid	no effect
5% sodium hydroxide	no effect
50% sodium hydroxide	no effect
85% lactic acid	no effect
50% sulfuric acid	no effect
38% hydrochloric acid	no effect
10% sodium chloride solution	no effect
28% ammonia	no effect
Household Chemicals	24 hours
Coffee	no effect
Cola	no effect
Grape juice	no effect
Ketchup	no effect
Mustard	transient staining
Clorox Bleach 5 – 10%	no effect

### SAFETY DATA SHEETS

The following are links to all available safety data sheets related to this product:

- [XS PC12 Part A - SDS](#)
- [XS PC12 Part B - SDS](#)