XGEN COATING SYSTEM™

X-PROTECT® CONCRETE

CLEAR & TINTED

TECHNICAL PRODUCT DATA SHEET (Page 1 of 3)

PRODUCT DESCRIPTION - xGen Coating System's X-PROTECT- Concrete is a two-part, premium, water reduceable system, which shows excellent physical properties. Less disruptive than traditional systems, X-PROTECT - CONCRETE is a one-coat application that performs like industrial epoxy/urethane multi-coat systems. The formulation has non-hazardous air pollutants and a low VOC level. It offers superior adhesion to concrete and has superior performance properties (hardness, flexibility, abrasion, and chemical resistance). X-PROTECT - Concrete provides outstanding coverage, excellent durability, and ease of application as well as being a low VOC and EPA compliant coating. X-PROTECT - Concrete yields a high gloss and is UV, abrasion, and chemical resistant while retaining good flexibility. X-PROTECT - Concrete offers superior adhesion and has film properties that rival most solvent based catalyzed Acrylic systems. Formulated for use on commercial concrete floors as an alternative to traditional coatings.

ENVIRONMENTAL ADVANTAGES - X-PROTECT - Concrete is a low VOC, high performance production coating. It's an excellent, cost-effective alternative that provides a hard, durable and chemically resistant floor covering. X-PROTECT - Concrete is easily applied over concrete or other existing, worn coatings. It does not contain lead or chromates. xGen Coating System's X-PROTECT - Concrete is considered non-hazardous by EPA definitions and does not contain lead or chromates. X-PROTECT - Concrete has characteristics that have been proven to inhibit the growth of various mildew and bacteria for proper handling. The solid and semi-solid sludge produced in spraying and clean up can be flocculated, dried and sent to a "Class B" landfill. Check with local and state regulations for proper handling.

CHARACTERISTICS

- Excellent exterior durability
- Water used for reduction
- Excellent hardness/impact resistance
- Mineral spirits used for clean-up
- Excellent mar and abrasion resistance
- Air dry or force curing preferred
- Excellent adhesion on cement and fiberglass
- Excellent resistance to tire straining and hot tire pickup
- Can be oven baked at 250°F
- Solvent resistant
- Wide range of colors
- Can be applied in a wide variety of temperature and humidity conditions without the use of retarders
- Shelf life of 1 year
- Non-Flammable

CHEMICAL RESISTANCE

SYSTEM	CLEAR or TINTED
Chemical Resistance Spot Test, Covered ASTM D 1308	
10% Acetic Acid	No Effect
MEK	Slight Effect
DI Water	No Effect
Betadine	No Effect
10% Bleach	No Effect
Gasoline	No Effect
Chemical Immersion Test, ASTM D 1308	
Skydrol	No Effect
Brake Fluid	No Effect

RECOMMENDED USES

- Concrete Floors

AIR QUALITY DATA

- VOC (Volatile Organic Compounds) 0.3 lb/gal, 36 gm/ltr when catalyzed
  - VOCs Part A: 0.278 lb/gal, 33. gm/ltr - VOCs Part B: 0.017 lb/gal, 3gm/ltr
- Free of lead and chromates
- Non-photochemically reactive

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PRODUCT DATA & SPECIFICATION

- Product Type: Acrylic Urethane
- Gloss: 88% @ 60°
- Theoretical Coverage @ 1 mil dry: 600 sq ft (Depending on substrate porosity)
- Recommended Film Thickness: 1 to 2 mil dry
- Liquid
- Specific Gravity: >1
- Dry Time: Walk On - 24 hours
- Dust Free - 30 mins
- Can walk on within 12 hours with forced air cure, not to exceed 120°F
- Clean up with mineral spirits
- Vapor Density: Heavier than air
- Evaporation Rate: Slower than ether
- VOC: 0.3 lb/gal, 36 gm/ltr
- Boiling Point: 340°F (171oC)
- % Solid by weight: 43% when catalyzed
- % Solid by volume: 41% when catalyzed
- Weight per gallon: 8.29lbs
- Flash Point: 320°F CC

INSPECTION & PREPARATION

Follow all precautions and instructions prior to application.

1. Substrate must be free of curing membrane, silicate surface hardener, paint, oil, dirt, waxes or sealer and be structurally sound. If you suspect the surface has been treated or sealed, prepare substrate for complete removal of treatment.
2. Testing for moisture is important, however it does not guarantee against future problems. If there is no vapor barrier or the vapor barrier is damaged, this can contribute to floor failure. Contamination such as oils, chemicals, excessive salts or Alkali Silica Reaction (ASR) may also contribute to floor failure.
3. Recoating - Sanding or Conditioning Pad needed to create an adequate profile for adhesion.

MIXING INSTRUCTIONS (72°, 50% R.H.)

1. Mix Part A well prior to adding in Part B.
2. Mix together 3 parts A with 1 part B by volume. This mixture will be thick and creamy.
3. Allow the mixture to “sweat-in” for 5 minutes.
4. Stir in approximately ½ to 1 part clean tap water until the viscosity is 18-25 seconds with a Zahn #2 viscosity cup.
5. Normal pot life is 2 hours. In areas of high temperature and humidity, the pot life will be less.

APPLICATION INSTRUCTIONS

PLEASE NOTE: Applying X-PROTECT - Concrete outside of the suggested parameters may result in job failure. It is always recommended to test the product in a small, inconspicuous area for desired results prior to application. Coverage rates may vary for all substrates depending on porosity, density, texture etc.

SPRAY APPLICATION *(Recommended)*

1. The first coat of X-PROTECT Concrete should be applied as a very light fog/tack coat.
2. After the fog/tack coat, wait about 30 seconds, and then apply a blend coat. This will color the entire surface lightly.
3. Allow 8-12 hours curing time before removing masking tape if needed.
4. X-PROTECT - Concrete will be dust free in about 30 minutes. Dry to the touch 1-2 hours. Force curing can be accomplished with rapid air movement over the substrate. Do not force-cure with heat over 120°F

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ROLLED APPLICATION

1. Be sure ALL surfaces are prepared and ALL application tools and products are ready prior to mixing. Tools include: Mixing buckets, roller pads and roller handles.
2. Thinly apply to clean surface using a roller applicator. When mixed, begin rolling product to obtain proper coverage on concrete floors. (Remember to continually mix product before and while applying to any surface! This will ensure that all solids remain suspended in the sealer.) Be sure to apply product all the way to the edges and corners.
3. Be sure to remove any excess sealer from deep pits with a quality paint brush or the roller. Allowing excess material to remain in these areas may result in foaming or small bubbles. Using a 1/4" mohair roller, roll over the previously spread product to evenly distribute product and remove any lines. MAKE SURE TO BACK ROLL THE FINISH WITHIN 1-2 MUNITUES OF BEING SPREAD. THE FINISH WILL BEGIN TO DRY QUICKLY. Repeat step 3 until all surfaces are coated.

CLEAN-UP WITH WATER

Clean paint gun immediately with mineral spirits. If the paint dries, solvents may have to be used for clean up. If the spray equipment is not stainless steel, the equipment may have to be taken apart and air-dried.

WEATHEROMETER

QUV testing was performed using the following cycles: 4 hours UV @131°F/55°C, followed by 4 hours of condensation @ 104°F/40°C with 30-minute cooling/dry off cycle.

WARRANTY

The technical data contained herein is accurate to the best of our knowledge. xGen Coating System warrants that coatings represented herein meet their formulation standards. No other warranty is expressed or implied, including warranties of merchantability and fitness for a particular purpose. Published technical data and instructions are subject to change without notice. Contact your XGen Coating System's Representative for current technical data and instructions.