

Skid Resistant Epoxy Coating System

1. PRODUCT DESCRIPTION

A. COMPOSITION

Posi-Tred O is a skid resistant epoxy coating for use over Dex-O-Tex Cheminert flooring systems and other Dex-O-Tex composite floors, as well as over concrete substrates, stairs, ramps, etc. Posi-Tred O is a three component material consisting of an epoxy resin, hardener and special pre-engineered aluminum oxide skid resistant aggregates. The three components are mixed together and troweled or squeegeed in place and back rolled.

Posi-Tred O is available in five different skid resistant profiles ranging from very coarse to very fine. Selection of best profile to be used depends upon the degree of skid resistance desired, cleaning characteristics desired and the finished appearance.

A special feature of Posi-Tred O is its extremely low odor level and freedom from toxic effect on applicators or personnel in the area during placement and cure.

Posi-Tred O can be used for interior service. For exterior service, consult with Crossfield prior to use. It is available in a range of standard colors and custom colors.

B. TYPICAL USES

Skid resistant surfaces are intended to provide a degree of skid resistance consistent with the intended end use, ranging from dry to wet environments for commercial, industrial and institutional use. It is used in manufacturing operations, stairs, ramps, and walkways-both exterior and interior. The material can be applied over new or existing concrete, ceramic tiles, metal surfaces or Dex-O-Tex composition floors.

C. ADVANTAGES AND LIMITATIONS

ADVANTAGES:

1. Can be applied over a wide range of surfaces.
2. No significant odor during installation.
3. Resists most common chemical spillage.
4. Wide range of color and profile selection.
5. Installed only by Professional Factory Trained Dex-O-Tex Contractors.

LIMITATIONS:

1. Discoloration may occur under UV exposure, use Dexotex Quik-Glaze where UV stability is required.
2. Temperature during application must be 60°F (18°C) or greater.
3. A waterproofing and crack isolation membrane can be installed prior to system application.
4. Polymer floor coatings, including those manufactured by Crossfield Products Corp., may show staining of tire marks from some brands and types of tires. Crossfield Products Corp. does not warrant its materials against tire staining.
5. Moisture vapor emission rates (MVER) in excess of 3.0 lbs./1000 sq/ft/per 24 hr. period per ASTM F1869, or an rh in excess of 78% per ASTM F2170 may result in delamination, discoloration or improper curing without proper treatment prior to installation of the flooring system. Consult with Crossfield Products Corp. for specific recommendations.

6. Vapor control primers, sloping, smoothing or leveling compounds, crack repair or isolation, waterproof membranes or other supplementary items may be required for proper installation at an additional cost. Consult with Crossfield Products Corp. for specific recommendations.

2. TYPICAL PHYSICAL PROPERTIES at 75°F (24°C)

- A. **Tensile Strength** ASTM D638..... 1,200 psi
- B. **Adhesion** ASTM D4541..... > 400 psi (100% failure in concrete)
- C. **Adhesion** ASTM D3359 (cross hatch) No Loosening
- D. **Coefficient of Friction-Rubber Shoe Surface** (MIL-D-3134 Test Procedure)

Profiles	Static Friction Saltwater Solution on surface	Static Friction Oil on surface	Sliding Friction Saltwater Solution on surface	Slide Friction Oil on surface
Fine	0.95	0.75	0.89	0.44
Medium	1.03	0.75	0.95	0.45
Coarse	1.09	0.85	1.00	0.56
Very Coarse	1.24	0.88	1.04	0.59

E. Overall Thickness (Dry Film) to Top of Skid Resistance

Aggregates

- Very Fine Profile 6 mils
- Fine Profile 12 mils
- Medium Profile 23 mils
- Coarse Profile 50 mils
- Very Coarse Profile 65 mils

F. Chemical Resistance ASTM D1308

(See Chemical Resistance Chart for Additional Data)

- Citric Acid (70%)..... No effect
- Hydrochloric (10%)..... No effect
- Sulfuric Acid (50%)..... No effect
- Lactic Acid..... Discoloration
- Beef and Bacon Fat..... No effect
- Hydraulic Fluid..... No effect
- Urine No effect

G. Resistance to Immersion MIL-PRF-23003A** Para. 4.5.11

SAE 10 Oil; Detergent Solution..... No softening, loss of Adhesion or other form of deterioration

H. Fire Resistance ASTM E162

- Flame Spread Index 0
- Smoke Deposited 2mg

I. Hardness ASTM D2240, Shore D..... 75-80

J. Microbial Resistance ASTM G21 Passes Rating 1

3. OVERVIEW OF INSTALLATION STEPS

- A. If direct to concrete, prepare surfaces by shot blasting, power scarification, etc. to remove laitance, grease, curing agents, etc. and prime with approved Dex-O-Tex Primer.
- B. Mix and trowel or squeegee or roller groutcoat, lockcoat or topcoat. Backroll to remove trowel or squeegee marks.
- C. For additional aggressiveness introduce additional skid resistant aggregate by broadcasting.

System Description Sheet

Posi-Tred O Epoxy Coating

Skid Resistant Epoxy Coating System

- D. Back roller to smooth trowel or squeegee line and create a stipple with roller.
- E. Apply final coat incorporating skid resistant aggregate and create a stippled finish with roller.

4. PRODUCT AVAILABILITY

Crossfield Products Corp. maintains offices and/or factories at all addresses listed below. Factory Trained Contractors are established in all major trading areas in the United States, Canada and various European, Latin American and Far East nations.

5. SKID RESISTANCE and CLEANABILITY

In general the more aggressive the finished surface the greater the coefficient of friction and corresponding skid resistance, the more difficult to clean. The smoother the finished texture the easier the surface is to clean, but there is a loss of skid resistant properties.

6. CLEANING

Cleaning and disinfecting compounds and cleaning techniques can affect the color, gloss, texture and performance of the system. As a precautionary step, Crossfield recommends that the end-user test their cleaning and disinfecting compounds on a sample or on a small, out of the way finished area, utilizing the intended cleaning technique prior to cleaning the entire surface area. If no deleterious effects are observed, the procedure can be continued. If the cleaning and disinfecting compounds or cleaning techniques damage the system, modification of the cleaning material or techniques will be required. Contact your Representative for additional information.

7. SPECIFICATION ASSISTANCE

Consult Crossfield Products Corp. for specification assistance, detailing, etc. This consultation is highly recommended prior to specification.

8. CHEMICAL RESISTANCE

See Crossfield Products Corp's., Chemical Resistance Guidelines for chemical resistance of a product or system, as well as the types of test performed:

- ASTM C868 Standard Test Method for Chemical Resistance of Protective Lining.
- ASTM C267 Standard Test Method for Chemical Resistance of Mortars, Grouts, and Monolithic Surfacing and Polymer Concretes.
- ASTM D1308 Standard Test Method for Effect of Household Chemicals on Clear and Pigmented Organic Finishes
- Crossfield Products Corp. Proprietary Testing

Note: Chemical resistance is a functional test, usually limited to changes in weight or thickness measured in loss or gain and does not evaluate subject aesthetic issues. To determine aesthetic issues, Crossfield recommends testing the products or system in accordance with intended end use.

9. TESTING

The technical data contained herein is the result of tests made in Crossfield's laboratories or in independent laboratories using small scale equipment, following generally accepted trade practices. Although this information is believed to be true and accurate, the use of different equipment for testing under

dissimilar conditions or the testing of samples produced under dissimilar conditions may develop substantially different results.

LIMITED WARRANTY

NO WARRANTY SHALL BE EFFECTIVE UNTIL THE TERMS AND CONDITIONS OF SALE SET FORTH IN CROSSFIELD PRODUCTS CORP. INVOICE ARE MET.

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CAUTION: ALWAYS KEEP OUT OF THE REACH OF CHILDREN.



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