

DEX-O-TEX®

System Description Sheet

Posi-Tred CR

Novolac Epoxy

Chemical, Heat and Skid Resistant Novolac Epoxy Coating System

1. PRODUCT DESCRIPTION

A. COMPOSITION

Posi-Tred CR is a chemical, heat and skid resistant epoxy novolac coating for application over primed concrete or as a groutcoat and topcoat for Dex-O-Tex systems, subjected to extreme environmental conditions.

Formulated with advanced high functional novolac epoxy chemistry, Posi-Tred CR has a tighter “cross-linking” than conventional epoxies. As a result, the material resists physical attack from the spillage of a wide range of acids, alkalis and solvents. Aggressive chemicals may stain the surface, but not impact the products physical and mechanical properties.

Posi-Tred CR is a three component material consisting of novolac epoxy resin, hardener and specially pre-engineered skid resistant aluminum oxide aggregates. The three components are mixed together immediately prior to placement and the material is then troweled in place and backrolled. Final topcoats are applied by roller.

It is available in five different skid retardant “profiles” ranging from very coarse to very fine. Selection of profiles to be used depends upon the degree of skid resistance required, the cleaning characteristics desired and the area of use.

It is available in a wide range of colors, as well as unpigmented. To minimize staining, topcoat pigmented products with Posi-Tred CR Clear, which has better stain resistance than Posi-Tred CR Pigment.

Posi-Tred CR contains no hydrocarbon solvents and meets all federal, state and local volatile organic content regulations. Posi-Tred CR has no significant odor during installation.

As an option, Posi-Tred CR is available in an Antimicrobial Biocide Additive which incorporates anti-microbial chemistry to control the growth of microorganisms (algae, bacteria, fungi, mildew, mold, etc.) on the floor surface.

B. TYPICAL USES

Skid resistance surface coating for use in manufacturing, storage, laboratories and containment areas subject to damaging chemical spillage.

C. ADVANTAGES AND LIMITATIONS

ADVANTAGES:

1. Resists wider range of chemical spillage’s than conventional epoxies.
2. Heat resistant.
3. No significant odor during installation.
4. 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 (16°C) or greater.
3. If sub-surface cracks, material may reflect cracks to some degree.
4. A waterproofing and crack isolation membrane can be installed prior to system application.

5. 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.
6. Moisture vapor emission rates (MVER) in excess of 3.0 lbs./1000 sq. ft./per 24 hr 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.
7. 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. **Surface Hardness** ASTM D2240 Shore D 80 - 85
- B. **Tensile Strength** ASTM D638 1200 psi
- C. **Flexibility** ASTM D1737** No Loosening
- D. **Adhesion** ASTM D4541 >400 psi
- E. **Adhesion (Crosshatch)** ASTM D3359.....5B No loosening
- F. **Thermal Shock Resistance** ASTM D1211* No failure
- G. **Temperature Resistance**
No measurable softening, deflection or integrity loss upon 8 hours immersion in boiling water (212°F 100°C and boiling cooking oil (>300°F, >149°C))
- H. **Water Absorption** MIL-D-3134, 7 day immersion) Nil
- I. **Chemical Resistance** (See Chemical Resistance Chart)
- J. **Overall DFT (Dry Film Thickness) to top of Skid Resistant Aggregate**
Very Fine Profile6 mils
Fine Profile12 mils
Medium Profile23 mils
Coarse Profile50 mils
Very Coarse Profile65 mils
- K. **Coefficient of Static Friction Rubber Shoe Surface**
(MIL-D-3134 Test Procedure)

Profiles	Static Friction		Sliding Friction	
	Saltwater Solution on Surface	Oil on Surface	Saltwater Solution on Surface	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

- L. **Fire Retardance** ASTM E648, FTMS, NFPA 253, NBSIR 75-950, Critical Radiant Heat Flux>1.07 Watts/cm²
- M. **Microbial Resistant**, ASTM G21Passes 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.

System Description Sheet

- C. For additional aggressiveness introduce additional skid resistant aggregate by broadcasting.
- 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.

Crossfield Products Corp. warrants to the purchaser of its products that such products are free from manufacturing defect. Crossfield does not warrant or guarantee the workmanship performed by any person or firm installing its products. Crossfield's obligation under this warranty is limited solely to the original purchaser and solely to the remedy of replacement in kind of any product which Crossfield sold which may prove defective in manufacture within one year from date of installation, provided said product was stored correctly and installed within the product's shelf life, by the original purchaser and which Crossfield examination shall disclose to Crossfield's satisfaction to be thus defective.

IN NO EVENT SHALL CROSSFIELD PRODUCTS CORP. BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES. THIS WARRANTY IS EXPRESSLY GIVEN IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR USE AND ALL OTHER OBLIGATIONS OR LIABILITIES ON CROSSFIELD'S PART, AND WE NEITHER ASSUME NOR AUTHORIZE ANY PERSON OR PERSONS TO ASSUME FOR US ANY OTHER LIABILITY IN CONNECTION WITH THE SALE OF A CROSSFIELD PRODUCT. THIS WARRANTY SHALL NOT APPLY TO ANY OF CROSSFIELD'S PRODUCTS, WHICH HAVE BEEN SUBJECT TO ADULTERATION, ALTERATION, ABUSE OR MISUSE. CROSSFIELD PRODUCTS CORP. MAKES NO WARRANTY WHATSOEVER IN RESPECT TO ACCESSORIES, PARTS OR MATERIALS NOT SUPPLIED BY CROSSFIELD PRODUCTS CORP., WHICH ARE USED IN CONNECTION WITH ITS PRODUCTS. THE TERM "ORIGINAL PURCHASER" IN THIS WARRANTY MEANS THAT PERSON, CORPORATION OR ENTITY TO WHOM CROSSFIELD PRODUCTS CORP. SOLD ITS PRODUCT OR PRODUCTS. ANY ACTION TO ENFORCE ANY WARRANTY OR FOR BREACH OF CONTRACT OR ARISING OUT OF ANY CLAIM AGAINST CROSSFIELD PRODUCTS CORP. SHALL BE COMMENCED AND MAINTAINED ONLY IN A COURT OF COMPETENT JURISDICTION IN THE CONTINENTAL UNITED STATES OF AMERICA. THE PURCHASER ACCEPTS THESE TERMS AND CONDITIONS, AND HEREBY EXPRESSLY WAIVES ANY CLAIM TO ADDITIONAL DAMAGES.

CAUTION: ALWAYS KEEP OUT OF THE REACH OF CHILDREN.



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