

### 1. PRODUCT DESCRIPTION

#### A. COMPOSITION

Conductive Cheminert K is a trowel-applied epoxy flooring system, which is a conductive and non-sparking. Applied in a series of coats, the total thickness of the floor is 3/16" (4.75mm) to 1/4" (6.35mm). It forms a seamless floor, which can be readily applied to form an integral coved base. All materials are quality controlled and factory pre-tested prior to shipment. It is available only in black.

The material can be installed over concrete and many other types of surfaces. Consult Crossfield for specific recommendations when applying over surfaces other than concrete.

Conductive Cheminert K is conductive and complies with the National Fire Protection Association Standard NFPA 56A, which has been superseded by NFPA 99. Dex-O-Tex Conductive Cheminert K is both conductive and non-sparking in accordance with the provisions of U.S. Army Material Command AMCR 385-100 and U.S. Naval Sea Systems Command NAVSEA OP-5. The resistance range for conductive flooring is twenty-five thousand to one million ohms, as tested in accordance with ESD Association Standard 7.1.

The material also complies with the electrical requirements of British Hospital Technical Memorandum No.2 (1977) as it applies to anti-static flooring for hospital operating theatres.

It is often used in conjunction with Dex-O-Tex Wall-Glas to produce an integrated "cocoon effect" seamless floor and wall system.

#### B. TYPICAL USES

Flooring for ammunition plants, arsenals, explosion hazardous industrial service, various other military uses, hospital operating suites, hazardous corrosion handling areas, etc.

#### C. ADVANTAGES AND LIMITATIONS

##### ADVANTAGES:

1. Electrically conductive and non-sparking.
2. Factory pre-engineered and pre-packaged system.
3. Pre-tested for conductivity.
4. Seamless floor, including integral coved base.
5. Good general chemical resistance.
6. Installed only by Professional Factory Trained Dex-O-Tex Contractors.

##### LIMITATIONS:

1. If concrete sub-surface cracks, Conductive Cheminert K flooring may reflect these cracks to some degree.
2. A waterproofing and crack isolation membrane can be installed prior to system application.
3. Moisture vapor emission rates (MVER) in excess of 3.0 lbs./1000 sq. ft./per 24 hour 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.

4. 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. Electrical Conductivity

NFPA #56.....	Complies
NFPA #99.....	Complies
*U.S. Army AMCR 385-100.....	Complies
*U.S. Army NAVSEA OP-5.....	Complies

\*includes non-sparking compliance

#### B. Electrical Transmission Properties..... 2.5E4-1E6 ohms

Point-to-Point and Point to Ground resistance per ESD  
7.1. Conductive (CD)

#### C. Compressive Strength ASTM D695..... 21,600 psi

#### D. Surface Hardness ASTM D2240, Shore D..... 82

#### E. Tensile Strength ASTM D638..... 6,680 psi

#### F. Tensile Elongation ASTM D638..... 5.9%

#### G. Flexural Strength ASTM D790

Flexural Yield Strength..... 12,200 psi

#### H. Modulus of Elasticity ASTM D790..... 4.1 x 10<sup>4</sup>

#### I. Adhesion ASTM D4541..... >400 psi (100% concrete failure)

#### J. Abrasion Resistance ASTM D4060..... 0.04 gr (CS17, 1000gr load, Cycles)

#### K. Microbial Resistance ASTM G21..... Passes Rating 1

#### L. Chemical Resistance (Resistance Components, Fed. Std. 406, Method 7011 (See Chemical Resistance Chart)

Acetic Acid 5%.....	No effect
ASTM No. 3 Oil.....	No effect
Distilled water.....	No effect
Ethanol.....	No effect
Hydrochloric Acid 10%.....	No effect
Industrial Detergent 0.025%.....	No effect
Isopropyl Alcohol.....	No effect
Lard.....	No effect
Mineral oil.....	No effect
Sulfuric Acid 30%.....	No effect

### 3. OVERVIEW OF INSTALLATION STEPS

- A. Prepare surfaces by careful and thorough removal of laitance, grease, bond, inhibiting concrete curing sealers and other foreign matter.
- B. Apply by brush and trowel a thin coating of bondcoat.
- C. Trowel apply resin an aggregate mixture to a nominal thickness of 3/16" (4.75mm) to 1/4" (6.35mm).
- D. Apply grout and finish coats by trowel and 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.

## System Description Sheet

### 3/16" to 1/4" Conductive Industrial Troweled Flooring System

#### 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.

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CAUTION: ALWAYS KEEP OUT OF THE REACH OF CHILDREN.



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