

DEX-O-TEX[®]

System Description Sheet

Electro-Flor HS-CD

CD (Conductive)
High Solids Flooring System

1. PRODUCT DESCRIPTION

A. COMPOSITION

Electro-Flor HS CD is a fluid applied, monolithic, high solids epoxy flooring, which is electrically active within resistance range requirements for a “conductive” flooring.

Typical thickness of Electro-Flor HS CD is approximately 52 mils (1.32mm), depending on substrate conditions. If the substrate is uneven, a Dex-O-Tex troweled or self-leveling floor should be applied prior to the Electro-Flor HS CD system. It is available in a wide range of standard colors.

Electro-Flor HS CD is designed to provide static-control properties, which prevent electro-static damage to electronic products and equipment. It is important that the user’s static-control requirements be clearly specified so as to insure proper conductive levels. The resistance range for conductive flooring is twenty five thousand to one million ohms, as tested in accordance with ECD Association Standard 7.1.

Workers interacting with the floor and must be connected to it by the use of conductive footwear, straps or conductive wheels. This is usually a requirement for all conductive and static dissipating flooring systems.

Electro-Flor HS CD is designed to be applied over concrete surfaces. For other surfaces contact Crossfield Products Corp.

Concrete substrates with a high level of moisture can be negatively effect the conductivity of conductive and static dissipating flooring systems.

B. TYPICAL USES

As “conductive” protective flooring for clean rooms, electronics manufacturing and assembly or any ECD sensitive environment.

C. ADVANTAGES AND LIMITATIONS

ADVANTAGES:

1. Protective Conductive flooring system.
2. Sanitary
3. Excellent abrasion resistance.
4. Chemical Resistant
5. Monolithic, seamless.
6. More durable than tile or sheet goods when exposed to forklift traffic.
7. Installed only by Professional Factory Trained Dex-O-Tex Contractors.

LIMITATIONS:

1. If sub-surface cracks move due to continued thermal flexing or mechanical loads or building settlement, Dex-O-Tex Electro-Flor may reflect those 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 lbs/1000 sq/ft/per 24 hr period per ASTM F1869, or an in-situ 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.

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

- A. **Electrical Transmission Properties**..... 25E4-1E6 ohms
Point-to-Point and Point to Ground resistance per ECD 7.1.
Static Dissipative (CD)
- B. **Impact Resistance** ASTM D2794..... Passes
Direct/Reverse 160/160 in-lbs.
- C. **Flexibility** ASTM D522, 1/8-inch mandrel Passes
- D. **Adhesion** ASTM D3359..... 5B
- E. **Abrasion Resistance** ASTM D4060
CS-17 wheels, 1 kg, 1000 cycles 40 mg
- F. **Microbial Resistant** ASTM G21..... Passes Rating 1
- G. **Chemical Resistance** (See Chemical Resistance Chart)

3. OVERVIEW OF INSTALLATION STEPS

- A. Preparation: Prepare surfaces by careful and thorough removal of laitance, grease, bond inhibiting concrete curing sealers and other foreign matter.

Static Dissipative Application

- B. Apply Electro-Flor Bondcoat
- C. Apply Electro-Flor HS CD Topcoat in two coats.

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.

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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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