

# DEX-O-TEX®

## Product Description Sheet

# Cheminert CFS Flooring

## 3/16" Industrial Decorative Floor with Integral Covebase

### 1. PRODUCT DESCRIPTION

#### A. COMPOSITION

Cheminert CFS is a 3/16" (4.76mm) resinous flooring system consisting of epoxy resin and catalyst mixed with special pre-engineered aggregates, designed for use where a decorative durable monolithic floor is required.

The system is applied in a series of applications consisting of a penetrating prime coat, troweled epoxy basecoat and a decorative colored quartz floodcoat, followed by grout coats and top coated with a clear epoxy finish.

The troweled basecoat offer superior impact and abrasion resistance, while the decorative color quartz surfacing provides excellent skid resistance with a pleasing esthetic

Cheminert CFS is available in 18 standard colors blends that features a skid resistance profile that can be customized with the uses of grout and seal coats. It can be finished with optional sealers such as an aliphatic polyester urethane, novolac epoxy or a highly chemical and abrasion resistant polyurea topcoats in a gloss or satin finish

It can be applied over new or existing surfaces of concrete, tile, metal or wood (consult Crossfield for wood surface preparation recommendations).

Cheminert CFS is an environmentally friendly product designed to meet LEED® requirements for low emitting materials. It is a 100% solids material approved by the USDA, EPA, OSHA and AQMD. It is also available with an Antimicrobial Additive incorporating an anti-microbial biocide, which protects against growth of algae, bacteria, fungi, mold, mildew, yeast, etc.

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

#### B. TYPICAL USES

Floors for industrial and institutional uses, food processing areas, beverages and spirits, shops, manufacturing, as well as kitchen service, toilet rooms, wet areas and others.

#### C. ADVANTAGES AND LIMITATIONS

##### ADVANTAGES:

1. Seamless – Monolithic, Can incorporate integral cove base.
2. Chemical Resistance – Resist common acids, caustics and chemicals
3. Slip Resistant – Medium to aggressive skid resistance ADA Compliant.
4. Durability, withstands Heavy and Abusive Service.
5. Environmentally Friendly, Low Odor During Installation and Cure
6. Ease of Maintenance
7. Installed only by Professional Factory Trained Dex-O-Tex Contractors.

##### LIMITATIONS:

1. Discoloration may occur under severe exposure to UV or metal halide lights

2. Requires functioning vapor barrier beneath on-ground concrete floor to prevent upwards water vapor transmission, which may result in loosening of epoxy materials.
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. Cheminert CFS is water resistant and water repellent. For positive waterproofness, a waterproofing and crack isolation membrane can be installed prior to system application.
6. Moisture vapor emission rates (MVER) in excess of 4.5 lbs/1000 sq/ft/per 24 hr period per ASTM F1869, or an rh in excess of 80% 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. **Compressive Strength** ASTM C579 ..... 11,000 psi
- B. **Tensile Strength** ASTM C307 ..... 2,200 psi
- C. **Flexural Strength** ASTM C580..... 4,300 psi
- D. **Adhesion** ASTM D4541..... >400 psi  
(100% failure in concrete)
- E. **Surface Hardness** ASTM D2240 Shore D..... 80-85
- F. **Water Absorption:**  
 ASTM C413..... < 0.1%  
 MIL-D-3134..... < 1.0%
- G. **Abrasion Resistance** ASTM D4060  
(CS17, 1000gr load, Cycles) ..... 0.04 gr
- H. **Flammability** ..... Self-Extinguishing  
 ASTM D635 ..... Bonded to concrete
- I. **Skid Resistance**  
 Varies depending upon surface texture selected.  
 (see Crossfield Skid Resistant Characteristic).
- J. **Microbial Resistance** ASTM G21 ..... Passes Rating 1
- K. **Chemical Resistance** (See Chemical Resistant Chart)

### 3. OVERVIEW OF INSTALLATION STEPS

- A. Prepare surfaces by shot blasting, power scarification, etc. to remove laitance, grease, curing agents and other foreign matter. Prepare in accordance with SSPC SP-13
- B. Apply epoxy primer coat.
- C. Trowel apply mixed resin, hardener and pre-engineered aggregate to a nominal thickness of 1/8" (4.76mm).
- D. Apply floodcoat/receiving coat and broadcast colored quartz or uniform size aggregate.
- E. Apply groutcoat/lockcoat by trowel or squeegee and backroll.
- F. Apply topcoat by squeegee and backroll.

#### 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 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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