

DEX-O-TEX[®]

System Description Sheet

Cheminert HD

Slurry Epoxy Floor

1/8" to 3/16" Industrial Floor with Integral Covebase

1. PRODUCT DESCRIPTION

A. COMPOSITION

Cheminert HD Slurry is a high density, fluid applied 1/8" (3.17mm) to 3/16" (4.76mm) seamless flooring system. It is comprised of an epoxy and pre-engineered specialty aggregate. It can incorporate an integral sanitary coved base. Cheminert HD is resistant to a wide range of acids, alkalis, solvents and food byproducts (see Chemical Resistance Chart).

Cheminert HD can be installed over concrete, metal or ceramic surfaces. This material is customarily applied to a thickness of 1/8" (3.17mm) to 3/16" (4.76mm), but can be installed in multi-lifts when increased thickness is desired. Cheminert HD is available in monochromatic standard colors and custom colors. The final skid resistant profile can range from relatively smooth to extremely aggressive depending on end use requirements and aggregate particle size.

It can be finished with optional topcoats of pigmented finish, Dex-O-Tex Quik-Glaze, an aliphatic polyurea, which are chemical resistant and UV stable or topcoated with Posi-Tred O Pigmented and Posi-Tred CR Pigmented when subjected to extreme environmental conditions. An Antimicrobial Biocide Additive is available 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.

B. TYPICAL USES

Floors for industrial use including meat, poultry and fish packing, wet and dry food processing areas, beverages and spirits, machine shops, heavy duty manufacturing, as well as certain types of kitchen service, toilet rooms and others.

C. ADVANTAGES AND LIMITATIONS

ADVANTAGES:

1. Monolithic: Can incorporate integral cove base.
2. Resistant to many chemicals. (see Chemical Resistance Charts).
3. Produces a rapidly installed seamless floor at moderate cost. A Cheminert HD installation may be placed in service within 24 hours in cases where preparation work is minimal.
4. Installed only by Professional Factory Trained Dex-O-Tex Contractors.

LIMITATIONS:

1. If sub-surface cracks move due to continued thermal flexing or building settlement, Cheminert HD may reflect those cracks to some degree.
2. A waterproofing and crack isolation membrane can be installed prior to system application.
3. Moisture vapor transmission (MVT) in excess of 3.0 lbs./1000 sq/ft/per 24 hr. period per ASTM F1869, may result in delamination, discoloration or improper curing. Use Dex-O-Tex VaporControl™ Primer 200 vapor control membrane over substrates, which have MVT emissions that exceed these limits. Consult with Crossfield prior to using

VaporControl™ Primer 100 if moisture vapor transmission exceeds 15 lbs/1000 sq/ft/per 24 hr period per ASTM F1869.

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

- A. **Compressive Strength** ASTM C579 9,000 psi
(Resin, Hardener and Aggregate)
Compressive Strength ASTM D695 11,000 psi
(Resin and Hardener)
- B. **Tensile Strength** ASTM C307 1,600 psi
(Resin, Hardener and Aggregate)
Tensile Strength ASTM D638 3,300 psi
(Resin and Hardener)
- C. **Flexural Strength** ASTM C580 4,300 psi
- D. **Bond Strength** ASTM D4541 >400 psi
(100% concrete failure)
- E. **Indentation Characteristics (Impacted Load)**
MIL-D-3134, Para. 4.7.3 (2 lb. Ball dropped twice from
8 ft. height) No chipping, cracking, loss of adhesion,
Indentation 0.024" Gardner Impact Tester, 160 in/lbs.
No cracking or detachment. Indentation 0.014"
- F. **Abrasion Resistance** ASTM D4060 0.04 gr
(CS17, 1000gr load, Cycles)
- G. **Flammability** ASTM D635
Self-extinguishing by this test (0.6")
- H. **Water Absorption** MIL-D-3134 0.3%
- I. **Surface Hardness** ASTM D2240 Shore D 80-85
- J. **Microbial Resistance** ASTM G21 Passes Rating 1
- K. **Chemical Resistance** (see Chemical Resistance Chart)

3. OVER VIEW OF INSTALLATION STEPS

- A. **Preparation**
Prepare surfaces by careful and thorough removal of laitance, grease, bond inhibiting concrete curing sealers and other foreign matter.
- B. **Primer**
Apply by brush or trowel a thin coating of C Bondcoat II.
- C. **Floor Basecoat**
Trowel apply resin and aggregate mixture to a nominal thickness of 1/8" (3.17mm) to 3/16" (4.76mm).
- D. **Sealer**
If maximum cleanability is desired (at the sacrifice of some skid resistance) an additional coat of pigmented top coating may be applied for uniformity.

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.

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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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