

1. PRODUCT DESCRIPTION

A. COMPOSITION

Cheminert K is a troweled seamless industrial flooring system comprised of a specially formulated two-component epoxy resin formulation incorporating finely gradated metallic and mineral aggregates. It can incorporate a high impact covered base. Cheminert K High Impact Formulation (HIF) is resistant, to a high impact, heavy loads steel wheel traffic and dynamic loading it is also resistant to chemicals, solvents, oils and food fats (see Chemical Resistance Chart).

Cheminert K HIF can be installed over concrete or metal s. (Consult Crossfield for other surfaces.) This material is customarily applied to a thickness of 3/16" (4.7 mm) to 1/4" (6.3 mm). Cheminert K HIF can be grouted and topcoated with a pigmented topcoat finish. The final slip resistant profile can range from smooth to extremely aggressive depending on end use requirements.

Cheminert K HIF is available in monochromatic standard and custom colors. The skid resistance profile can be upgraded with the addition of select topcoats and unique aggregate blends containing aluminum oxide aggregates.

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

Cheminert K HIF is available in 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.

B. TYPICAL USES

Floors for industrial use including machine stops, Refuse collection and separation areas, Trash compaction room areas, commercial freight consolidation, and heavy item storage and distribution.

C. ADVANTAGES AND LIMITATIONS

ADVANTAGES:

1. Superior compressive strength and impact resistance
2. Chemical Resistance (see Chemical Resistance Chart).
3. Produces a rapidly installed seamless floor. Its installation may be placed in service within 24 hours in cases where preparation work is minimal.
4. Low temperature stability; withstands cracking, peeling and delamination under typical commercial freezer conditions (up to -10°F).
5. 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. If sub-surface cracks move due to continued thermal flexing or building settlement, Cheminert K may reflect those cracks to some degree.
3. A waterproofing and crack isolation membrane can be installed prior to system application.
4. 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 14,600 psi (Resin, Hardener and Aggregate)
- B. **Compressive Strength** ASTM D695 12,000 psi (Resin and Hardener)
- C. **Tensile Strength** ASTM C307 1,940 psi (Resin, Hardener and Aggregate)
- D. **Tensile Strength** ASTM D638 4,000 psi (Resin and Hardener)
- E. **Flexural Strength** ASTM C580 2,300 psi
- F. **Bond Strength** ASTM D4541 >400 psi (100% concrete failure)
- G. **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"
- H. **Abrasion Resistance** ASTM D4060 (CS17, 1000gr load, Cycles) 0.01 gr
- I. **Flammability** ASTM D635
Self-extinguishing by this test (0.6")
- J. **Water Absorption** MIL-D-3134 0.3%
- K. **Surface Hardness** ASTM D2240 Shore D 90-95
- L. **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.
- B. **Primer**
Apply by brush or trowel a thin coating of Cheminert K Bondcoat.
- C. **Floor Basecoat**
Trowel apply resin and aggregate mixture to a nominal thickness of 3/16" (4.75mm) to 1/4" (6.33mm)".
- D. **Sealer (Optional)**
If maximum cleanliness is desired (at the sacrifice of some skid resistance) an additional coat of pigmented top coating may be applied for uniformity.

System Description Sheet

Troweled Epoxy Floor 3/16" to 1/4" Industrial Floor HIGH IMPACT FORMULATION

Note: Suitable drains, floor cleanouts, etc. are available from most major drain manufacturers.

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.

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CAUTION: ALWAYS KEEP OUT OF THE REACH OF CHILDREN.



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