

DEX-O-TEX[®]

System Description Sheet

Cheminert Terrazzo Flooring

Thin-Set Epoxy Terrazzo, Meets NTMA and TTMAC Standards

1. PRODUCT DESCRIPTION

A. COMPOSITION

Cheminert Terrazzo flooring is a thin-set epoxy terrazzo flooring system, which incorporates marble chip or other aggregates.

Cheminert Terrazzo meets or exceeds the NTMA (National Terrazzo and Mosaic Association) and TTMAC (Terrazzo, Tile and Marble Association of Canada) Standards.

It is usually installed in a finished thickness from 1/4" (6.35mm) or 3/8" (9.52mm) to accommodate for the marble particle size. Cheminert Terrazzo is available in a wide range of background colors. Marble chips vary in color and hardness and they can be imported; or for economy, selected from regionally available colors and types. Granite, Glass, Mother of Pearl or other aggregates can be substituted.

Divider strips are used to separate architectural designs and for terminations at joints, bases, penetrations and transitions.

Antimicrobial Biocide Additive is available which incorporates antimicrobial chemistry to control the growth of microorganisms (algae, bacteria, fungi, mold, mildew, yeast, etc.) on the floor surface.

For a UV stable and breathable thin-set terrazzo which meets or exceeds all NTMA and TTMAC standards, see Dex-O-Tex Spectrum Terrazzo.

B. TYPICAL USES

Cheminert Terrazzo is conventionally used in commercial and institutional facilities that require a decorative flooring system with a design life of 40 to 50 years, such as airport terminals, shopping malls, schools, universities, churches, correctional facilities, corridors, convention centers or pharmaceutical manufacturing.

C. ADVANTAGES AND LIMITATIONS

ADVANTAGES:

1. Thin section, light weight.
2. Monolithic.
3. Installed only by Professional Factory Trained Dex-O-Tex Contractors.

LIMITATIONS:

1. If sub-surface cracks, Cheminert Terrazzo may "reflective" crack to some degree. Consult Crossfield for recommendations to reduce such cracking.
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. **Compressive Strength** ASTM D695 12,000 psi
- B. **Surface Hardness** ASTM D2240 Shore D 80-85
- C. **Tensile Strength** ASTM D638..... 3,400 psi
(run at 2"/minute using "C" die for ASTM D412)
- D. **Flash Point** ASTM D92 143°F
- E. **Water Absorption** MIL-D-3134 & ASTM D570 0.3%
- F. **Chemical Resistance**

(seven day immersion, with no deleterious effect)

Distilled Water	Detergent Solution 0.025%
Ethanol	Hydrochloric Acid 10%
Isopropanol	Soap Hydroxide 1%
Distilled Water	Sodium Hydroxide 10%
Acetic Acid 5%	Sulfuric Acid 30%

- G. **Bond Strength** ACI 503.1 525psi
(100% failure in the concrete)
- H. **Impact Resistance** MIL-D-3134, Para. 3.15
No cracking or loosening Indentation 0.005 in.
- I. **Indentation Resistance** MIL-D-3134, Para. 3.16
No indentation
- J. **Critical Radiant Flux** NFPA 253/FTMS 372
& ASTM E648..... >1.07 Watts/CM²
Class 1 interior finish
- K. **Flammability** ASTM D635..... Self Extinguishing
- L. **Co-efficient of Linear Expansion**
ASTM D696 14x10⁻⁶in./in./°F
- M. **Resistance to Elevated Temperature**
MIL-D-3134, Para. 3.6..... no flow, no slip
- N. **Abrasion Resistance** ASTM D4060 0.07 gm
- O. **Microbial Resistance** ASTM G21 Passes Rating 1

3. OVERVIEW OF INSTALLATION STEPS

- Prepared substrate surface by removal of laitance, grease and other foreign matter.
- Apply Dex-O-Tex Membrane if specified.
- Apply primer bond coat.
- Trowel apply terrazzo body coat.
- Power grind to expose marble or other aggregate.
- Apply groutcoat to fill voids.
- Fine grind and polish floor.
- Apply sealer coats.

Note: Special drains, floor cleanout, etc. are available from most major drain manufactures. Consult Crossfield for plumbing roughing.

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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.

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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