

DEX-O-TEX[®]

System Description Sheet

Decor-Flor Troweled Epoxy Floor

3/16" to 1/4" Decorative Colored Quartz Floor with Integral Covebase

1. PRODUCT DESCRIPTION

A. COMPOSITION

Decor-Flor Troweled Flooring System is a decorative trowel applied flooring system designed to produce a seamless floor with integral coved base. The completed floor has a nominal thickness of 3/16" (4.75mm) to 1/4" (6.35mm). The colored quartz granules are in a clear epoxy mortar binder, that is groutcoat and topcoated. The system is resistant to a wide range of chemicals (see Chemical Resistance Chart).

Decor-Flor Troweled Flooring System can be applied over concrete, metal or wood substrates (Consult Crossfield for a detailed specification for placement on metal or wood substrates).

It can be finished with optional topcoats of clear (gloss) or matte finish, Dex-O-Tex Aero-Flor 100 aliphatic polyester urethane, which are chemical, abrasion and UV stable or topcoated with Posi-Tred CR when subjected to extreme environmental conditions or Elastaglaze a highly chemical and abrasion resistant polyurea topcoat.

Colored quartz aggregate granules are available in standard color blends. See the Decor-Flor Colored Quartz Trowelable Epoxy Flooring System Color Card for standard patterns or an infinite number of custom patterns can be blended.

Decor-Flor Troweled is available in an Antimicrobial Additive, incorporating an anti-microbial biocide, which protects against growth of algae, bacteria, fungi, mold, mildew, yeast, etc. Terracolor 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

Decor-Flor Troweled is designed to be used in facilities where aesthetics and functionality are both required, such as, pharmaceutical plants, research and development, bio-tech, clean rooms, medical facilities, laboratories, commercial kitchens, food procession, institutional facilities, food and beverage processing, wine and spirits and other facilities requiring an aesthetic functional floor.

C. ADVANTAGES AND LIMITATIONS

ADVANTAGES:

1. Monolithic, including integral coved base can possess the same appearance or it can be color contrasted.
2. Resistant to many chemicals (See Chemical Resistance Chart).
3. Rapidly installed decorative seamless floor at moderate cost.
4. Aesthetically pleasing with high physical and mechanical properties.
5. Installed only by Professional Factory-Trained Dex-O-Tex Contractors.

LIMITATIONS:

1. Discoloration may occur under UV exposure, use Dexotex Aero-Flor where UV stability is required.
2. If dynamic cracks in the substrate move the flooring system may reflect the cracks. To minimize the potential of reflecting cracks telegraphing from the substrate, use SC Membrane or another Dex-O-Tex crack isolation systems.

3. A waterproofing and crack isolation membrane can be installed prior to system application.
4. Polymer floor coatings, including those manufactured by Crossfield Products Corp., may show staining of tire marks from some brands and types of tires. Crossfield Products Corp. does not warrant its materials against tire staining.
5. 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 11,750 psi (Resin, Hardener & Aggregate) (738 kg/cm²)
- B. Compressive Strength** ASTM D695 8,500 psi (Resin & Hardener)..... (597 kg/cm²)
- C. Tensile Strength** ASTM C307 1,800 psi (Resin, Hardener & Aggregate) (127 kg/cm²)
- D. Tensile Strength** ASTM D638..... 5,000 psi (Resin & Hardener)..... (352 kg/cm²)
- E. Flexural Strength** ASTM C580 4,000 psi (281 kg/cm²)
- F. Surface Hardness** ASTM D2240 Shore D 80-85
- G. Indentation Characteristics**
(Steadily Applied Load) MIL-D-3134, 0.005"
Para. 4.7.4.2.1, 2000 lbs on (0.127 mm)
1" steel ram imposed for 30 minutes over
a concrete substrate, indented
- H. Indentation Characteristics** MIL-D-3134, Para. 4.7.3
(Impact Load) 0.011"
(2 lb. .908 kg.) Indent from steel ball (0.28 mm)
dropped twice from 8 ft. height
- I. Adhesion** ASTM D4541 > 400 psi
(100% failure in concrete) (28.1 kg/cm²)
- J. Water Absorption** MIL-D-3134..... < 1.0%
- K. Abrasion Resistance** ASTM D4060
(CS17, 1000gr load, 1000 cycles)..... 0.03 gr
- L. Flammability** ASTM D635 Self-Extinguishing
Bonded to Concrete
- M. Skid Resistance**
Varies depending upon surface texture selected.
(See Crossfield Skid Resistance Characteristic)
- N. Microbial Resistant** ASTM G21 Passes Rating 1
- O. Chemical Resistance** (See Chemical Resistance Chart)

3. OVERVIEW OF INSTALLATION STEPS

- A.** Prepare surface by careful and thorough removal of all laitance, grease, concrete curing agents and foreign matter.
- B.** Apply Bondcoat Primer by squeegee, roller or brush.
- C.** Trowel apply Decor-Flor and colored quartz aggregate to a thickness of 3/16" (4.75mm) to 1/4" (6.35mm).
- D.** Groutcoat with Decor-Flor by squeegee or trowel, and by backrolling. Apply second groutcoat if required.

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E. Optional finishcoat, with matte finish or optional high performance clear sealer.

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 Crossfield 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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