

# DEX-O-TEX<sup>®</sup>

## System Description Sheet

# Quik-Chip Polyurea Broadcast Flooring System

## 1/16" to 3/32" Decorative Floor

### 1. PRODUCT DESCRIPTION

#### A. COMPOSITION

Quik-Chip Broadcast Flooring System is a Scientifically Superior™ Decorative (multi-color) two component polymer system consisting of fast setting Quik-Glaze FC polyurea resin and hardener, and select Dex-O-Tex decorative color chip blends. Quik-Chip is rapidly installed in a single or double broadcast, and multiple topcoats to produce a evenly textured floor covering range in thickness from 3/32" (1.27mm) to 1/8" (3.17mm). The color chip blend adds a decorative finish and provides resiliency for a more cushioned flooring surface. Varying skid resistance can be achieved through application and aggregate selection. Quik-Chip systems are available in a range of standard colors.

It can be finished with optional topcoats of clear gloss or satin finishes. Dex-O-Tex Quik-Chip flooring systems are chemical, abrasion and UV stable.

Quik-Chip systems can incorporate additional antimicrobial protection with the addition of this anti-microbial biocide. Quik-Chip Flooring 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

Used on any fast track project requiring fast cure resins from dry to wet environments in commercial, industrial and institutional areas, such as manufacturing, processing, warehousing, stairs, ramps, walkways, corridors and commons-areas. The material can be applied over new or existing concrete or Dex-O-Tex composition floors or metal or wood sub-surfaces (Consult Crossfield for detailed specification for metal or wood surfaces).

Quik-Chip fast cure systems can be installed to provide many different applications such as: Smooth Coats, Smooth Coat with Synthetic Aggregate; Slurrycoat; and Slurrycoat Broadcast.

#### C. ADVANTAGES AND LIMITATIONS

##### ADVANTAGES:

1. Resistant to many chemicals (See Chemical Resistance Chart).
2. Produces a rapidly-installed, seamless floor at moderate cost.
3. Self-priming ability.
4. Installed only by Factory-Trained Dex-O-Tex Contractors.
5. Crossfield offers a Limited Supplemental Warranty of ten years against moisture vapor suppression delamination of Quik-Chip Systems when used over VaporControl™ Primer 100. Contact Crossfield for additional information.

##### LIMITATIONS:

1. If sub-surface cracks, Quik-Chip systems may reflect 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 10 lbs./1000sq/ft/per 24 hr. period per ASTM F1869, may result in delamination, discoloration or improper curing. Use Dex-O-Tex VaporControl™ Primer 200 over substrates, which have MVT emissions that exceed these limits. Consult with Crossfield prior to using VaporControl™ Primer 100 if moisture vapor transmission exceeds 15lbs/1000sq/ft/per24 hr period per ASTM F1869.

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

- A. Compressive Strength** ASTM C579 ..... 8,700 psi (Resin, Hardener & Aggregate)
- B. Compressive Strength** ASTM D695 ..... 9,200 psi (Resin & Hardener)
- C. Tensile Strength** ASTM D412 ..... 4,700 psi (Resin, Hardener )
- D. Tensile Elongation** ASTM D412 ..... 80% (Resin & Hardener)
- E. Flexural Strength** ASTM D1737 ..... Passes (Resin, Hardener)
- F. Surface Hardness** ASTM D2240 Shore D ..... 85-90
- 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**  
(Impact Load) MIL-D-3134, Para.4.7.3 ..... 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/cm)
- J. Water Absorption**  
MIL-D-3134 ..... < 1.0%
- K. Abrasion Resistance**  
ASTM D4060 (CS17, 1000gr load, 1000 cycles). 0.09 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. Dry Time** ..... Surface Dry ..... 1.5 hrs  
Hard Dry ..... 2.0 hrs
- O. Microbial Resistant** ASTM G21 ..... Passes Rating 1
- P. Chemical Resistant** (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 epoxy primer.
- C.** Apply receiving coat(s) of mixed Quik-Glaze Resin, color and broadcast aggregate (single or double broadcast).
- D.** Apply tie coat and top coat to achieve required skid resistance finish texture.

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E. Apply optional clear or pigmented finish coat for Gloss or satin finish

## 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.



## DEX-O-TEX PRODUCT LINE Crossfield Products Corp.

West Coast Office  
3000 E. Harcourt Street  
Rancho Dominguez, CA  
90221  
310-886-9100  
310-886-9119 fax

East Coast Office  
140 Valley Road  
Roselle Park, NJ  
07204  
908-245-2800  
908-245-0659 fax

[www.dexotex.com](http://www.dexotex.com)