

# DEX-O-TEX®

## Product Description Sheet

# Spectrum Terrazzo Flooring

**Thin-Set Polyacrylate Modified Terrazzo,  
Meets NTMA and TTMAC Standards**

### 1. PRODUCT DESCRIPTION

#### A. COMPOSITION

Spectrum Terrazzo is a decorative thin-set polyacrylate modified cementitious terrazzo that meets or exceeds the standards set by the NTMA (National Terrazzo and Mosaic Association) and the TTMAC (Terrazzo, Tile and Marble Association of Canada). It is a water-phase elastomeric resin composition incorporating marble chip to achieve a terrazzo finish. It can also form an integral, sanitary coved base.

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

Spectrum Terrazzo is customarily applied in a finished thickness of 3/8" (9.53mm) or greater, which permits the use of #1 sized marble chip as the maximum chip size.

Spectrum Terrazzo can be installed over new and existing concrete, metal or wood surfaces (consult Crossfield for details specification for wood surfaces).

Spectrum Terrazzo is available in many matrix colors (including white) and a complete range of marble chips.

For a UV stable and breathable thin-set epoxy terrazzo, review Cheminert VP Terrazzo. It is the "Next Generation" of thin-set epoxy terrazzo, because it breathes, while meeting or exceeding all NTMA and TTMAC standards.

#### B. TYPICAL USES

Spectrum Terrazzo is conventionally used when a breathable acrylic based cement terrazzo is required for 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, including integral base.
3. No toxic odors during installation.
4. Skid-resistant
5. Low burning rate and negligible smoke production.
6. Available in a wide range of colors.
7. Installed only by Professional Factory Trained Dex-O-Tex Contractors.

##### LIMITATIONS:

1. If concrete sub-surface cracks, Dex-O-Tex Spectrum Terrazzo may reflect these 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 6.0 lbs/1000sq/ft/per 24hr 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.

**Note:** Chemical resistance is not a true factor of a terrazzo flooring. The chemical resistance of any terrazzo floor can only be as good as the resistance of the marble chips, which comprise the bulk of the floor's surface.

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

**A. Compressive Strength** ASTM C109 ..... 4,100 psi  
(2" x 2" cubes)

**B. Indentation Characteristics** (Steadily Applied Load)  
MIL-D-3134, Para. 4.7.4.2.1 (2000 lbs. on 1" steel ram  
imposed for 30 minutes) ..... 1.05%

**C. Indentation Characteristics** (Impacted Load)  
MIL-D-3134, Para 4.7.3 (2 lb. Steel ball  
dropped from 8-foot height)..... 0.02" indent  
No loosening or cracking

**D. Adhesion** MIL-D-3134, Para. 4.7.14  
(Shear from steel plate after 96 hours)..... 200 psi

**E. Tensile Strength** ASTM C190 ..... 800 psi

**F. Flammability** ASTM E162  
Flame Spread Index ..... 0.47  
Smoke Deposited ..... Less than 0.1 mg  
ASTM E84..... Flame Spread Rate – 0  
Smoke Density Factor – 3  
Fuel Contribution Rate – 0

**G. Resistance to Elevated Temperatures**  
MIL-D-3134, Para. 4.7.5.1..... No flow or Slip

**H. Slip Resistance (Coefficient of Sliding Friction)**  
Dry Leather 0.43 Dry Rubber 0.59  
Wet Leather 0.68 Wet Rubber 0.70

**I. Abrasion Resistance** ..... 0.13 Wear Index  
FTMS 141a Method 6192 (CS #17 Wheel)

**J. Coefficient of Thermal Expansion** ASTM C531  $4.7 \times 10^{-6}$

**K. Water Absorption** MIL-D-3134, Para. 4.7.8..... 3.03%

**L. Scratch Resistance**  
Army Corps of Engineers Guide Specs. 245.05..... 0.00549"

**M. Electrical Conductivity** ..... Dielectric

### 3. OVERVIEW OF INSTALLATION STEPS

- Prepare surface by removal of laitance, grease, foreign matter.
- Apply Dex-O-Tex Waterproof Membrane, if specified.
- Apply bonding coat by trowel or brush.
- Trowel apply terrazzo body coat.
- Power grind to expose marble aggregate.
- Apply grouting coat to fill voids and find grind floor.
- Apply sealer coats.

### 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

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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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