

# DEX-O-TEX<sup>®</sup>

Scientifically Superior<sup>™</sup> Technologies

Dex-O-Tex Flooring & Coating Systems  
Contribute to Achieving LEED<sup>®</sup>  
“Green Building” Certification Status

## Product Emphasis: Dex-O-Tex Thin-Set Epoxy & Dex-O-Tex Polyacrylate Terrazzo

Dex-O-Tex Scientifically Superior<sup>™</sup> polymer and cementitious flooring and coating systems have long been valued for their life cycle characteristics: low maintenance, durability, non-dusting indoor air quality, odor abatement, and an antimicrobial additive that reduces algae, bacteria, fungi, mildew and mold. In addition, these products also feature recycled content. Dex-O-Tex's thin-set epoxy and polyacrylate terrazzo systems can be used with recycled glass filler, glass chips and mother-of-pearl oyster shell, in addition to providing an anticipated life cycle of fifty years. The addition of recycled aggregate contributes to LEED Rating System points when used in compliant new facility construction and renovation projects.

### MRcr1.3 Building Reuse Credit (1 point possible)

Dex-O-Tex polymer and cementitious flooring and coating systems typically last the life of the structure. In many renovation projects, the original thin-set epoxy and polyacrylate terrazzo flooring systems have been restored to their original luster following inexpensive repairs and/or refinishing of the floor. Refinishing of thin-set epoxy and polyacrylate terrazzo and other flooring systems can be combined with reuse in other areas like walls, doors and ceiling systems to achieve 50% reuse.

### MRcr4.1 and 4.2 Recycled Content Credit (2 points possible)

Dex-O-Tex polymer and cementitious flooring and coating systems, especially thin-set epoxy and polyacrylate terrazzo, allow for easy incorporation of recycled glass and oyster shell, as well as stone or marble, which are mine tailings (waste) from quarry sites that have been salvaged from refuse piles and re-crushed and sieved for the terrazzo industry. One point is granted for 10% recycled content and a second point for an additional 10% (20% total) of the total value of the materials on the project. A thin-set epoxy terrazzo floor containing 100% recycled glass would contain as much as 75% to 80% by volume of recycled product. Aluminum and brass strips may also contain recycled metal. The credit is based on the dollar value of the raw material.

### MRcr5.1 and 5.2 Local Regional Materials Credits (2 points possible)

Dex-O-Tex polymer and cementitious flooring and coating systems are manufactured on the jobsite. One point is awarded if 10% of the project building materials are manufactured within a 500-mile radius of the project. Since the flooring and coating systems incorporate several different components, often from different manufacturers, they comply. In addition, raw materials, such as aggregates, are often extracted, harvested or recovered within a 500-mile radius of the project. The calculation is based on the cost of the raw materials. The marble chips, glass aggregate, river rock, beach sand, as well as the cement and epoxy binders are available throughout the United States. These systems can contribute to the credit if the raw material supplier is located within 500 miles of the project site and is manufactured on site. A second point is awarded if the total percentage of the cost of regional materials is at least 20%.

### MCcr2.1 and 2.2 Construction Waste Management Credit (1 to 2 points possible)

Dex-O-Tex polymer and cementitious flooring and coating systems, including thin-set epoxy terrazzo, can contribute to construction waste management and assist in the reclamation of glass waste from the construction process. In projects that require demolition of existing structures, the thin-set epoxy terrazzo contractor can be part of the construction waste management team – reclaiming aggregate and thereby avoiding disposal into the landfill. If desired, the salvaged aggregate can potentially be used in the flooring of the new building project.

### **EQcr4.1 Indoor Emitting Materials Credit 4.1 (1 point possible)**

Cementitious based polyacrylate thin-set terrazzo systems are a combination of inorganic powder and aggregate and organic based binders containing limited to zero volatile organic compounds (VOC). Dex-O-Tex epoxy flooring and coating systems have, for the most part, moved to 100% solid formulas, eliminating the addition of any VOC's in the material. In addition, a number of Dex-O-Tex flooring and coating systems are silica free. Certification of compliance may be obtained from Crossfield Products Corp.

### **IDcr1 Innovative Design Credit (1 point possible)**

Dex-O-Tex cementitious and polymer flooring and coating systems can also potentially gain additional points under the Innovation and Design category for innovative performance in Green Building categories not specifically addressed by LEED. As an example, extensive use of polyacrylate and epoxy terrazzo as a predominant floor material can potentially result in an installation with a Life Cycle Analysis that exceeds that of other floor materials.

**Total Points:** Overall, on typical projects, polymer flooring and coating systems qualify for LEED Credits. Epoxy and polyacrylate thin-set terrazzo can realistically contribute to five (5) LEED credits: MRcr4 (2), MRcr5 (2), EQcr4.1 (1). On a case-by-case scenario, Dex-O-Tex flooring and coating systems may also be able to contribute to MRcr1.3 (1), and in extreme cases IDcr1 (1) and MRcr2 (1), for a total of 8 points possible.

Original information obtained from the National Terrazzo & Mosaic Association (NTMA): TERRAZZO APPLICATION LEED® 2.2 PROJECT ANALYSIS by Michael A. Kawecki, LEED AP, USGBC North Texas Chapter and Crossfield Products Corp., an active member in CSI, SSPC, ICRI, NTMA.

LEED® (Leadership in Energy and Environmental Design) Rating System is a registered trade name of USGBC (U.S. Green Building Council).



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