

POLYMER MODIFIED FIBER-REINFORCED DECK MIX

PRODUCT NO. 1251-81

DIVISION 3

Structural Concrete
03 31 00

PRODUCT DESCRIPTION

QUIKRETE® Polymer Modified Fiber Reinforced Deck Mix is an air-entrained, normal-setting, fiber-reinforced material designed to repair highways, bridge decks, concrete parking lots, and other concrete surfaces.

PRODUCT USE

QUIKRETE® Polymer Modified Fiber-Reinforced Deck Mix is designed as a patching material for commercial applications at a thickness of 2" (51 mm) to 2 feet (610 mm). QUIKRETE® Polymer Modified Fiber Reinforced Deck Mix is fortified with an integral corrosion inhibitor. QUIKRETE® Polymer Modified Fiber Reinforced Deck Mix is made from specially blended cement, fibers, carefully graded aggregates and additives approved for use in structural concrete. The product is air entrained and contains other additives to promote superior durability, high strength, and long working time.

SIZES

- QUIKRETE® Fiber-Reinforced Deck Mix - 80 lb (36.3 kg) bags

YIELD

- Each 80-pound (36.3 kg) bag of QUIKRETE® Polymer Modified Fiber Reinforced Deck Mix will yield approximately 0.6 cu ft (17 L).

TECHNICAL DATA

APPLICABLE STANDARDS

ASTM International

- ASTM C 39 Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens
- ASTM C 231 Standard Test Method for Air Content of Freshly Mixed Concrete by the Pressure Method
- ASTM C882 Standard Test Method for Bond Strength of Epoxy-Resin Systems Used With Concrete By Slant Shear

PHYSICAL/CHEMICAL PROPERTIES

QUIKRETE® Polymer Modified Fiber Reinforced Deck Mix when tested in accordance with ASTM procedures provides typical results as listed in Table 1.

INSTALLATION

MIXING

The product will require approximately 3 quarts (2.8 L) of water per 80 pounds (36.3 kg) of product. Add approximately 90% of the expected water then add the dry material. Adjust slump with additional water to achieve a slump of 4-7" (100-175 mm). Mix until a uniform product is obtained. Do not exceed 4.5 quarts (4.3 L) per 80 pound (36.3 kg) bag.



PLACING

- The forms and substrate should be thoroughly dampened but do not leave puddles
- Fill the forms completely working from one end to the other. Avoid partial depth lifts, which could result in cold joints
- Consolidate the material using hand tamping and/or chopping with a shovel. It is particularly important to compact around the edges of the forms or patches
- Screed the surface, and then apply a trowel or broom finish as desired

CURING

Proper curing increases the strength and durability of concrete repair materials. QUIKRETE® Acrylic Concrete Cure & Seal (#8730) provides the easiest and most convenient method of curing. Apply by spray, brush or roller, when the surface is hard, following the final finishing operation. The surface may be damp, but not wet, when applying the curing compound. Under hot, dry and windy placing conditions, all concrete tends to lose moisture unevenly and may develop plastic shrinkage cracks. The use of sheeting, monomolecular films (either sprayed or rolled on), as well as the application of a very fine fog spray of water, has been quite successful in arresting shrinkage cracking.

TABLE 1 TYPICAL PHYSICAL PROPERTIES

Compressive Strength (ASTM C39)

| | |
|----------|--------------------|
| 24 Hours | 1800psi (12.4 MPa) |
| 3 Days | 3000psi (20.7 MPa) |
| 7 Days | 4200psi (29.0 MPa) |
| 28 Days | 6000psi (41.4 MPa) |

Air Content (ASTM C231)

5% - 8%

Shear Bond Strength (ASTM C882)*

2500 psi (17.2 MPa)

* Shear bond strength calculated using the cross-sectional area of the specimen

PRECAUTIONS

During extremely hot or dry conditions, cold water should be used to maintain mix at a moderate placement temperature. Protect concrete from freezing during the first 48 hours. Plastic sheeting and insulation

blankets should be used if temperatures are expected to fall below 32°F (0°C).

WARRANTY

The QUIKRETE® Companies warrant this product to be of merchantable quality when used or applied in accordance with the instructions herein. The product is not warranted as suitable for any purpose or use other than the general purpose for which it is intended. Liability under this warranty is limited to the replacement of its product (as purchased) found to be defective, or at the shipping companies'

option, to refund the purchase price. In the event of a claim under this warranty, notice must be given to The QUIKRETE® Companies in writing. This limited warranty is issued and accepted in lieu of all other express warranties and expressly excludes liability for consequential damages.

The QUIKRETE® Companies
One Securities Centre
3490 Piedmont Rd., NE, Suite 1300, Atlanta, GA 30305
(404) 634-9100 • Fax: (404) 842-1425



www.quikrete.com