

PRODUCT DATA

FIBER REINFORCED POLYMER CONCRETE VO

FIBER REINFORCED POLYMER CONCRETE VO is a two component, specially formulated prepackaged blend of Portland cement, aggregates, microsilica, fibers and other unique chemicals used to repair deteriorated concrete. This material is ideal for use where a fast setting time and high strength are desired and is specially designed for the repair of deteriorated concrete and can be used above or below grade and on vertical or overhead surfaces. Fiber Reinforced Polymer Concrete VO (FRPC VO) is easy to use. Simply add the premeasured FRPC Additive and mix.

BENEFITS:

- Designed for overhead and vertical surfaces
- Superior adhesion
- Similar modulus of elasticity to concrete
- Extremely low shrinkage
- Vapor permeable
- Resistant to freeze/thaw cycling
- Easy to apply and finish
- May used up to 2 inches thick overhead in one application
- Contains a corrosion inhibitor
- Coatings may be applied after 72 hours

PACKAGING:

Powder: 50 lb bag

Liquid: 1 gal jug

YIELD:

One 50 lb. bag yields approximately 0.40 cu. ft.

SHELF LIFE: 12 months in the original unopened container.

STORAGE: Store in a dry area away from direct sunlight. This product should be conditioned to between 40°F and 95°F before use. Protect component A from freezing. If it freezes, the product must be discarded.

PHYSICAL AND CHEMICAL CHARACTERISTICS:

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|---|---------------------|
| Compressive Strength (ASTM C-109 (Modified)) | |
| 1 day | 3010 psi |
| 7 days | 4050 psi |
| 28 days | 5500 psi |
| SPLIT TENSILE STRENGTH (ASTM C-496) | |
| 28 days | 1010 psi |
| FLEXURAL STRENGTH (ASTM C-78) | |
| 1 day | 400 psi |
| 7 days | 850 psi |
| 28 days | 1580 psi |
| BOND STRENGTH (ASTM C-882 (Modified)) | |
| 1 day | 500 psi |
| 7 days | 1200 psi |
| 28 days | 1500 psi |
| SHRINKAGE (inch/inch) | |
| 1 day | 0.009 |
| 7 days | 0.0012 |
| 28 days | 0.0012 |
| RAPID CHLORIDE PERMEABILITY (ASTM C-1202) | |
| 28 days | 900 |
| MODULUS OF ELASTICITY IN COMPARISON (ASTM C-469) | |
| 28 days | 1.9x10 ⁶ |

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PREPARATION: All surfaces must be clean and free of dirt, dust, paint, sealers, coatings, loose material, adhesives, curing compounds or any other material that will inhibit patching material from coming in contact with the concrete pores. Tight, steel troweled concrete should be abraded or etched with sulfamic or muriatic acid solution, then neutralized to open up the concrete pores. Removal of any anti-adherents or loose materials must be accomplished mechanically with a wire brush, chipping hammer, or by sand or water blasting. Solvents or strippers are not acceptable.

MIXING: For normal applications, add full gallon of liquid additive to a clean container. Add the Powder. Mixing can be achieved either manually or mechanically. Mechanical mixing is preferred. Mixing should continue until a uniform, lump-free consistency is obtained. Small amounts of water may be added up to 12 ounces per bag. Excess water will reduce strength and durability. Avoid over mixing which could lead to over aeration of the mix.

APPLICATION: Apply in a minimum thickness of 1/8 inches and a maximum thickness of 2 inches per lift. Dampen the surface thoroughly with clean water to a saturated surface dry (SSD) condition. While the surface is damp, fill the desired area with Fiber Reinforced Polymer Concrete VO to a maximum thickness of 2 inches. Alternatively, prime surface with a primer diluted one to one with water or an epoxy bonding agent. After rough leveling and consolidation, the product can be finished to desired texture. For applications greater than 2 inches in thickness, apply in successive lifts.

Curing: The formulation of Fiber Reinforced Polymer Concrete VO minimizes the need for curing. However, application in direct sunlight or in windy conditions may lead to rapid surface drying. Damp curing or the use of a curing compound that complies with ASTM C-309 is recommended.

TEMPERATURE: Ambient and surface temperatures must be 38°F or above during application.

STORAGE: Store in a covered, dry area. Stored at room temperature (75°F) in dry, unopened original containers, material has a shelf life of 1 year.

CLEAN UP: Remove uncured material from tools and equipment with water. Cured material may only be removed mechanically.

PRECAUTIONS: This product contains Portland cement and crystalline free silica. Avoid breathing the dust. Exercise care, as with handling any chemical construction product. Use adequate ventilation. Use of a NIOSH/ MSA approved dust respirator, safety goggles and chemicals resistant gloves are strongly recommended. Remove contaminated clothing immediately. **First Aid:** Skin Contact: wash thoroughly with soap and water. Eye Contact: flush immediately with water and contact a physician. Respiratory Problems: remove affected person to fresh air immediately and contact a physician. Hygiene: wash hands immediately after use. Wash clothing before reuse. Spills: Collect in appropriate container. Uncured material may be removed with water. Disposal: Dispose of in accordance with local, state and federal regulations. **KEEP CONTAINER CLOSED WHEN NOT IN USE. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY BY A QUALIFIED TECHNICIAN. ALWAYS WEAR PROTECTIVE CLOTHING AND EYE PROTECTION.** Consult the Safety Data Sheet (SDS) for full health and safety information.

LIMITED WARRANTY: Product manufacturer warrants that the products are in conformance to the formulation standards of manufacturer and that such products are free from manufacturing defects. Purchaser's only remedy is replacement of the product. Manufacturer does not warrant or guarantee the workmanship performed by any person or company installing its products. In no event shall Manufacturer be liable for any incidental or consequential damages. This warranty is expressly given in lieu of all other warranties express or implied, including the warranties of merchantability and fitness for use and all other obligations or liabilities on Manufacturer's part. Manufacturer neither assumes nor authorizes any person or persons to assume for us any other liability in connection with the sale of Manufacturer's products. This warranty shall not apply to any of Manufacturer's products which have been subject to alteration, abuse or misuse. Manufacturer makes no warranty whatsoever in respect to parts, materials or accessories not supplied by Manufacturer which are used in connection with its products. The purchaser accepts these terms and conditions along with Seller's General 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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