

## PRODUCT DATA

### FIBER REINFORCED POLYMER CONCRETE CH

**FIBER REINFORCED POLYMER CONCRETE CH** is a two component, specially formulated prepackaged blend of Portland cement, aggregates, microsilica, fibers and other unique chemicals. Microsilica reacts chemically with the calcium hydroxide in the cement paste to produce a calcium silicate hydrate gel which yields a substantially improved in-place concrete. This material is ideal for use where a fast setting time and high strength are desired and can be used above or below grade. Fiber Reinforced Polymer Concrete CH (FRPC CH) is easy to use. Simply add the premeasured FRPC Additive and mix.

#### BENEFITS:

- Prepackaged and easy to use, eliminating jobsite mixing errors
- Fast strength gain
- Little down time
- Very low porosity
- Increased chemical resistance over normal concrete
- Can be coated in 48 hours
- Great resistance to salt cake

#### APPLICATIONS:

- Topping or repairing deteriorated concrete
- Pouring pedestals
- Pouring curbs
- Rebuilding equipment bases
- Concrete repairs in recovery boilers
- Other high strength concrete repairs not exposed to acid

**PACKAGING:** 1 unit contains a 65 lb. bag and 1 gallon jug of liquid additive

#### YIELD:

One unit yields approximately 0.53 cu. ft.

#### PHYSICAL AND CHEMICAL CHARACTERISTICS:

Compressive Strength (ASTM C-109 (Modified))	
1 day . . . . .	4062 psi
3 days . . . . .	6850 psi
7 days . . . . .	7500 psi
28 days . . . . .	8670 psi
SPLIT TENSILE STRENGTH (ASTM C-496)	
28 days . . . . .	500 psi
FLEXURAL STRENGTH (ASTM C-293)	
7 days . . . . .	605 psi
28 days . . . . .	960 psi
BOND STRENGTH (ASTM C-882 (Modified))	
28 days . . . . .	1650 psi
SHRINKAGE	
28 days . . . . .	0.03
FREEZE/THAW (ASTM C-666)	
100 cycles . . . . .	no damage

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#### APPLICATION:

*As a Topping:* Prepare the substrate. Substrate must be sound and free from laitance, loose particles, dust, dirt, oils, paints, curing compounds or anything else that would be a barrier to the existing concrete. Remove deteriorated concrete and/or anti-adherents by mechanical means (chipping, sandblasting, grinding, shot blasting, etc.). The use of a long open time epoxy bonding agent is recommended.

*For Placing:* Use the same placement/forming techniques as used for conventional concrete.

For a smooth finish, use a steel trowel. Avoid over troweling. For proper curing, keep moist for 3 days with an occasional fine mist of water or cover with wet burlap or plastic. The use of a curing compound conforming to ASTM C-309 will also work; however curing compounds may need to be mechanically removed prior to coating.

**MIXING:** Add 1 gallon of liquid additive to the mixing vessel per 65 lbs. of Fiber Reinforced Polymer Concrete CH. Add 65 lbs. (1 bag) of material and mix to a smooth, lump free, low slump consistency. Avoid a soupy mix. If necessary, water can be added in small quantities up to 12 oz. Excess water will reduce strength and durability.

**TEMPERATURE CONSIDERATIONS:** In cold weather use warm (not hot!) water for mixing. Dampen the surface of the work area before applying the material. For a rough or non-slip surface, use a wooden float or broom. Hot weather (above 80 degrees) will cause faster setting. To slow setting time, mix with cold water or ice.

**CLEAN UP:** Use soap and water. Clean tools before material hardens.

**STORAGE:** Store in dry, covered area. Materials kept dry and stored at room temperature (75°F) in unopened original bags have a shelf life of 1 year.

**PRECAUTIONS:** Contains Portland cement. Avoid eye contact or prolonged contact with skin. Wash thoroughly after handling. In case of eye contact, flush with plenty of water for 15 minutes. Consult a physician immediately. Contains free silica. DO NOT breathe dust. May cause delayed lung injury. Follow OSHA safety and health standards for crystalline silica (quartz). See safety data sheet (SDS) for detailed information.

**ADDITIONAL INFORMATION:** For complete safety information refer to the material SDS. For additional information, contact us at 888-809-2365.

**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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