



F-MACRO

LEVEL 1

LEVEL 2

LEVEL 3

LEVEL 4

PRODUCT FEATURES

- Enhances durability, fatigue and flexural performance
- Provides secondary reinforcement with equal strength to WWM & light rebar
- Three dimensional reinforcement to prohibit cracking
- Alkali resistant & non-corrosive
- Reduces in place costs
- High impact and wear resistance
- 4 times the macro fiber count

APPLICATIONS

- Slab-on-grade
- Precast concrete (thin wall application such as septic tank & burial vaults)
- Shot-crete (tunnel linings, slope stabilization, & pool construction)
- UTW (Ultra-thin White Toppings)
- Paving & elevated deck concrete applications
- Other specialty applications

BENEFITS

F-Macro fiber added to concrete mechanically locks in the fresh concrete matrix, controlling cracking. F-Macro provides secondary reinforcement for WWM and light rebar replacement which eliminates crack formation that causes permanent weakening of the concrete. With F-Macro, concrete is more durable, fatigue resistant, adds flexural toughness and is highly impact resistant and improves your Bottom Line.

MIXING

Follow ASTM C-94 guidelines. F-Macro can be added directly to the mix at the jobsite or during batching of ingredients, but not as the first ingredient and should be mixed for a minimum of 5 minutes at full mixing speed.

PACKAGING

3lb bag	8 bags/ carton
4lb bag	6 bags/ carton
5lb bag	5 bags/ carton

DOSAGE RATES

Dosage rates will vary and there is usually an ARS (Average Residual Strength) requirement that needs to be met. Dosage rates can range from 3.0 lbs. per cubic yard (1.8 kg per cubic meter) to 20.0 lbs. per cubic yard (12 kg. per cubic meter). F-Macro fibers comply with ASTM C 1116, Standard Specification for Fiber Reinforced Concrete and Shotcrete.

FINISHING

F-Macro can be placed by using several methods such as by chute, pumping or shotcrete and can be finished with a hand trowel, power trowel, laser screed or broom finished. A slight slump loss will occur with a 3-5 lb. dosage and larger doses will give a greater slump loss. (See recommendations)

PHYSICAL PROPERTIES

Material	Polypropylene/Polyethylene
Specific gravity (g/m ³)	0.91
Tensile Strength	70 ksi
UV Resistance	Excellent
Absorption	Nil
Acid & Alkali Resistance	Excellent
Type	Fibrillated
Dispersity Rate	Excellent
Fiber Length inch (mm)	1.5" (38mm) & 2.0" (50mm)
Electrical Conductivity	Low
Melting Point	330° F (165° C)
Ignition Point	1100° F (590° C)

QUESTIONS? CONTACT US!

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