



TECHNICAL DATA SHEET

2018 REVISION

FEATURES

- Enhanced durability, fatigue and flexural performance
- Provides secondary reinforcement with equal strength to WWM and light rebar
- Three dimensional reinforcement to prohibit cracking
- Alkali resistant & non-corrosive
- Reduced in place cost
- High impact resistance and wear resistance
- 4x Macro fiber count

BENEFITS

Mechanically locks in the fresh concrete matrix, controlling cracking.

Secondary reinforcement for WWM and light rebar replacement which eliminates crack formation that causes permanent weakening of the concrete.

Durable, fatigue resistant with added flexural toughness and impact resistance.

Improved bottom line.

APPLICATIONS

- Slab on grade
- Precast
- Thin wall (such as septic tanks & burial vaults)
- Shot-crete (Tunnel linings, slope stabilization, pool construction)
- UTW - Ultra-thin White Toppings
- Paving
- Elevated decks
- Other Specialty Applications

DOSAGE RATES

Dosage rates will vary and there will usually be an ARS (Ave. Residual Strength) requirement that needs to be met. Dosage rates can range from 3.0lb per cubic yard (1.8kg per cubic meter) to 20.0lb per cubic yard (12kg per cubic meter). Meets ASTM C 1116 Standard Specification for Fiber Reinforced Concrete and Shotcrete.

PHYSICAL PROPERTIES

Material	Polypropylene/Polyethylene
Specific Gravity	0.91
Electrical Conductivity	Low
UV Resistance	Excellent
Absorption	Nil
Chemical & Alkali Resistance	Excellent
Color & Type	Fibrillated - White
Dispersity Rate	Excellent
Fiber Length (mm)	38 & 50 mm
Melting Point	320 F (160 C)
Ignition Point	1094 F (590 C)

MIXING

Follow ASTM C-94 guidelines. Fi-Flex can be added directly to the mix at the job-site 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

3 lb., 4 lb. or 5 lb. bag(s)

FINISHING

Fi-Flex can be placed with several methods: chute, pumping or shotcrete. It 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, larger doses will result in greater slump loss. (See recommendations.)

All information, recommendations and solutions provided by Green Umbrella regarding Fiber products and their use and application is based on our experience with these products when properly stored, handled and applied under normal conditions.