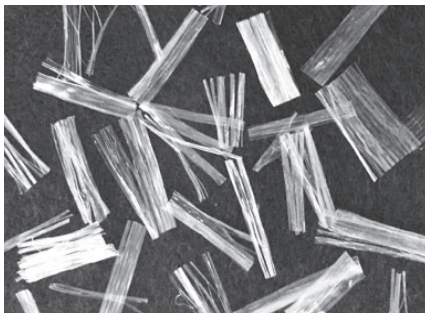




FRC FIB-300 SYNTHETIC FIBER

FRC FIB-300, micro-reinforcement system for concrete—100 percent virgin homopolymer polypropylene fibrillated fibers with e³ patented technology containing no reprocessed olefin materials. Specifically engineered and manufactured by Sika (formerly Propex) in an ISO9001 certified manufacturing facility for use as concrete reinforcement. FRC FIB-300 is private labeled for FRC Resources and meets all the same codes and standards as Fibermesh 300 e³ and SikaFiber PPF-300

FEATURES & BENEFITS

- Inhibits and controls the formation of intrinsic cracking in concrete
- Increases cohesion and reduces segregation
- Reduces settlement and bleeding
- Reduces plastic shrinkage and settlement cracking
- Increases impact and shatter resistance
- Reinforces against abrasion
- Reduces freeze/thaw damage
- Provides durability
- Replacement for typical light gauge welded wire reinforcement, in lightly loaded slabs when used for secondary crack control

PRIMARY APPLICATIONS

Applicable to all types of concrete which demonstrate a need for resistance to intrinsic cracking and improved water tightness and an aesthetic finish.

- Industrial slabs-on-ground
- Airport pavements
- Blast resistant concrete
- Equipment foundations

COMPLIANCE

- Complies with ASTM C 1116/C 1116M, Type III fiber reinforced concrete
- ISO 9001 Quality Assured Facility
- UL Classified: For use as an alternate or in addition to the welded wire fabric used in Floor-Ceiling D700, D800, D900 Series Designs. Fibers may also be used in Floor-Ceiling Design Nos. G229, G243, G256, G514

CHEMICAL AND PHYSICAL PROPERTIES

Absorption	Nil	Ignition Point	759.2 °F (404 °C)
Acid & Salt Resistance	High	Melt Point	320 °F (160 °C)
Alkali Resistance	Alkali Proof	Thermal Conductivity	Low
Electrical Conductivity	Low	Tensile Strength	40-60 ksi
Fiber Length	3/4" & 1/2" Graded	Tensile MOE	600 ksi
Specific Gravity	0.91		

*Also available in single cut lengths

ADVANTAGES OF FRC FIB-300 MICRO FIBERS:

- Non-magnetic
- Rustproof
- Alkali proof
- Requires no minimum amount of concrete cover
- Always positioned in compliance with codes
- Safe and easier to use than traditional reinforcement
- Reduces construction time

FRC FIB-300 FIBERS:

- Should not be used for replacing any moment or structural steel

PRODUCT USE

MIXING: FRC FIB-300 micro reinforcing is a mechanical, not chemical, process. The addition of FRC FIB-300 fibrillated fiber does not require any additional water or other mix design changes at normal rates. FRC FIB-300 fiber is added to the mixer during or after batching the other concrete materials. After the addition of the fibers, the concrete should be mixed for a sufficient time (batch plant: minimum 5 minutes or 70 revolutions) to ensure uniform distribution of the fibers throughout the concrete mix. Mixing times may vary please contact FRC Resources representative.

PLACING: FRC FIB-300 micro-reinforced concrete can be pumped, sprayed or placed using conventional equipment.

FINISHING: FRC FIB-300 micro-reinforced concrete can be finished by normal finishing techniques such as, exposed aggregate, broomed and tined surfaces.

APPLICATION RATE: The standard recommended application rate for FRC FIB-300 fibers is a minimum 1.5 lbs/yd³. For specialty performance see your local FRC Resources representative for recommendations regarding increased application rates or macro synthetic fibers.

GUIDELINES

FRC FIB-300 fibers should not be used to replace structural, load-bearing reinforcement. FRC FIB-300 fibers should not be used as a means of using thinner concrete sections than original design. FRC FIB-300 fibers should not be used to increase joint spacing past those dimensions suggested for unreinforced concrete.

COMPATIBILITY

FRC FIB-300 fibers are compatible with all concrete admixtures and performance enhancing chemicals.

SAFETY

No special handling is required with FRC FIB-300 fibers. Full Safety Data Sheets are available on request.

PACKAGING

FRC FIB-300 fibers are available in a variety of packaging options. The 1.5 and 7.5 lb bags are standard in North America. Bags are packed into cartons, palletized and shrink wrapped for protection during shipping. Special packaging is available for full truckload addition. Store materials in a cool dry place. Do not store in direct sunlight.

TECHNICAL SERVICES

Trained FRC Resources specialists are available to assist and advise in specifications and field service. FRC Resources representatives do not engage in the practice of engineering or supervision of projects and are available solely for service and support of our customers.

REFERENCE DOCUMENTS

- ACI 304 Guide for Measuring, Mixing, Transporting and Placing Concrete
- ACI 506 Guide for Shotcrete
- ASTM C1116/C1116M Standard Specification for Fiber-Reinforced Concrete and Shotcrete
- Concrete Society (UK) Technical Report 34 Concrete Industrial Floors

SPECIFICATION CLAUSE

Fibers for concrete shall be FRC FIB-300, 100 percent virgin polypropylene fibrillated fibers, e³ patented technology patented technology, containing no reprocessed olefin materials. The fibers shall conform to ASTM C1116 Type III and manufactured in an ISO 9001 certified manufacturing facility specifically for the secondary reinforcement of concrete. Unless otherwise stated, FRC Fib-300 fibers shall be added to the concrete at the batching plant at the recommended application rate of 1.5 lbs/yd³ and mixed for a sufficient time (minimum 5 minutes at full mixing speed) to ensure uniform distribution of the fibers throughout the concrete. Fibrous concrete reinforcement shall be supplied by FRC Resources, Seminole, FL. 32772 USA, tel: 727.433.4350
Website: www.FRCResources.com

FRC Resources, LLC Seminole, FL 33772 — FRCresources.com
Ed Methfessel: 727.433.4350 — Randy Shelby 407.257.3234

FRC RESOURCES PROVIDES MICRO SYNTHETIC, MARCO SYNTHETIC, STEEL AND BLENDED FIBERS.

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