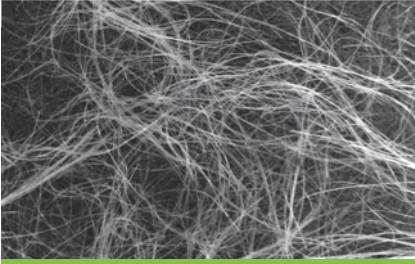


# PRODUCT DATA • SIKA® FIBERMESH® 150F



## ADVANTAGES OF SIKA FIBERMESH 150F MICRO FIBERS:

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

## SIKA FIBERMESH 150F FIBERS:

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

## SIKA FIBERMESH 150F SYNTHETIC FIBER

Sika Fibermesh 150F, micro-reinforcement system for concrete—100 percent virgin homopolymer polypropylene multifilament (monofilament) fibers containing no reprocessed olefin materials. Specifically engineered and manufactured in ISO 9001 certified manufacturing facility for use as concrete reinforcement.

## FEATURES & BENEFITS

- Reduces fire explosive spalling
- Inhibits and controls the formation of intrinsic cracking in concrete
- Increases cohesion and reduces segregation
- Reduces settlement and bleeding
- Provides durability

## PRIMARY APPLICATIONS

Applicable to all types of concrete which demonstrate a need for resistance to fire spalling, intrinsic cracking, and improved water tightness

- Tunnel
- Bridges
- Oil Platforms
- High rise buildings
- Multi story garages
- Precast
- Concrete framed structures
- Schools
- Shotcrete

## COMPLIANCE

- Complies with European Standard EN 14889-2:2006 Fibres for Concrete Part 2: Class 1b and carries CE marking
- UL Classified: Fibermesh 150. 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
- Complies with ASTM C 1116/C 1116M, Type III fiber reinforced concrete
- ISO 9001 Quality Assured Facility

## 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	Specific Gravity	0.91
Electrical Conductivity	Low	Thermal Conductivity	Low
Fiber Length	0.47 in (12mm) or 0.24 in (6mm)		

\*Also available in single cut lengths

# WE ARE THE CONCRETE FIBER EXPERTS™

[WWW.FIBERMESH.COM](http://WWW.FIBERMESH.COM)

# PRODUCT DATA • SIKA® FIBERMESH® 150F

## PRODUCT USE

**MIXING:** Fibermesh 150F micro reinforcing is a mechanical, not chemical, process. The addition of Fibermesh 150F multifilament fiber does not require any additional water or other mix design changes at normal rates. Fibermesh 150F 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 Sika Fiber representative.

**PLACING:** Fibermesh 150F micro-reinforced concrete can be pumped, sprayed or placed using conventional equipment.

**FINISHING:** Fibermesh 150F micro-reinforced concrete can be finished by normal finishing techniques such as, exposed aggregate, broomed and tined surfaces.

**APPLICATION RATE:** The EN standard application rate for Fibermesh 150F fibers is a minimum 3.4 lbs/yd<sup>3</sup>, (2.0 kg/m<sup>3</sup>). Dosage can be verified with fire testing.

## GUIDELINES

Fibermesh 150F fibers should not be used to replace structural, load-bearing reinforcement. Fibermesh 150F fibers should not be used as a means of using thinner concrete sections than original design.

## COMPATIBILITY

Fibermesh 150F fibers are compatible with all concrete admixtures and performance enhancing chemicals.

## SAFETY

No special handling is required with Fibermesh 150F fibers. Full Safety Data Sheets are available on request.

## PACKAGING

Fibermesh 150F fibers are available in a variety of packaging options. The 2.2 lb bag (1.0 kg) is standard. 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 Sika Fiber specialists are available worldwide to assist and advise in specifications and field service. Sika Fiber 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 22 Non-Structural cracks in concrete
- Eurocode 2 part 2 Section 6.2 Spalling
- European Standard EN 14889-2: 2006 Fibres for Concrete

## SPECIFICATION CLAUSE

Fibers for concrete shall be Sika Fibermesh 150F, 100 percent virgin polypropylene multifilament fibers containing no reprocessed olefin materials. The fibers shall conform to ASTM C1116 Type III and manufactured specifically for the secondary reinforcement of concrete.

or

Fibers for concrete shall be Sika Fibermesh 150F, 100 percent virgin polypropylene multifilament fibers containing no reprocessed olefin materials. The fibers shall conform to EN 14889-2: 2006 Class 1a and manufactured specifically for the secondary reinforcement of concrete.

The fibers shall be manufactured in an ISO 9001 certified manufacturing facility. Unless otherwise stated, Sika Fibermesh 150F fibers shall be added to the concrete at the batching plant at the recommended application rate of ...lbs/yd<sup>3</sup> (..... kg/m<sup>3</sup>) 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 manufactured by Sika Fiber, LLC, 4019 Industry Drive, Chattanooga, TN. 37416 USA, tel: 833.236.1255, web site: www.Fibermesh.com.

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