



ADVANTAGES OF FIBERMESH 150e3 MICRO FIBRES:

- 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

FIBERMESH 150e3 FIBRES:

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

FIBERMESH 150e3 MICRO-SYNTHETIC FIBRE

Fibermesh 150e3 micro-reinforcement fibres for concrete are 100 percent virgin homopolymer polypropylene graded multifilament (often described as monofilament) fibres containing no reprocessed olefin materials. Fibermesh 150e3 fibres are European Standard EN 14889-2:2006 compliant and have been specifically engineered and manufactured in our ISO 9001:2008 certified facility for use as concrete reinforcement at the recommended dosage rate of 0.9 kg per cubic metre (0.1% by volume) for effective performance.

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 improved durability
- Alternative system to traditional reinforcement when used for secondary crack control) reinforcing in concrete

PRIMARY APPLICATIONS

- Ground supported slabs
- Precast
- External Roads & pavements
- Overlays & toppings
- Driveways
- Tanks and pools
- Sprayed concrete
- Walls

COMPLIANCE

- Complies with European Standard EN 14889-2:2006 Fibres for Concrete Part 2: Class 1a and carries CE marking
- ISO 9001:2008 Quality Assured Facility
- Complies with ASTM C 1116 Type III 4.1.3

NOMINAL PHYSICAL PROPERTIES

Fibre Length	<i>Graded</i>	Acid & Salt Resistance	<i>High</i>
Type	<i>Multifilament</i>	Melt Point	<i>162°C</i>
Absorption	<i>Nil</i>	Ignition Point	<i>593°C</i>
Specific Gravity	<i>0.91</i>	Thermal Conductivity	<i>Low</i>
Electrical Conductivity	<i>Low</i>	Alkali Resistance	<i>Alkali Proof</i>



PRODUCT USE

MIXING: Fibermesh 150e3 micro-reinforcement is a mechanical, not chemical, process. The addition of Fibermesh 150e3 multifilament (also termed as monofilament) fibres do not require any additional water or other mix design changes at normal rates. Fibermesh 150e3 fibres can be added to the mixer before, during or after batching the other concrete materials. After the addition of the fibres, the concrete should be mixed for sufficient time (minimum 5 minutes at full mixing speed) to ensure uniform distribution of fibres throughout the concrete.

PLACING: Fibermesh 150e3 micro-reinforced concrete can be pumped, sprayed or placed using conventional equipment. Hand or vibratory screeds and laser screeds can be used with Fibermesh 150e3 micro-reinforced concrete.

FINISHING: Fibermesh 150e3 micro-reinforced concrete can be finished by any finishing technique. Exposed aggregate, broomed and tined surfaces are no problem.

DOSAGE: The recommended dosage rate for Fibermesh 150e3 fibres, to achieve effective performance, is 0.9 kg per cubic metre. For special performance, please contact your local Fibermesh representative for recommendations regarding increased application rates.

GUIDELINES

Fibermesh 150e3 fibres should not be used to replace structural, load-bearing reinforcement. Fibermesh 150e3 fibres should not be used as a means of using thinner concrete sections than original design. Fibermesh 150e3 fibres should not be used to increase joint spacing past those dimensions suggested for un-reinforced concrete.

COMPATIBILITY

Fibermesh 150e3 fibres are compatible with all concrete admixtures and performance enhancing chemicals, but requires no admixtures to work.

SAFETY

No special handling is required with Fibermesh 150e3 fibres. Full Safety Data Sheets are available on request.

PACKAGING

Fibermesh 150e3 fibres are available in standard 0.9 kg degradable paper bags, which are designed to be placed directly into the concrete mixer without opening. They are also available upon request in a variety of packaging options to suit application. Fibermesh 150e3 fibres are packaged, packed into cartons, shrink wrapped and palletized for protection during shipping.

TECHNICAL SERVICES

Trained Fibermesh specialists are available worldwide to assist and advise in specifications and field service. Fibermesh 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

- European Standard EN 14889-2: 2006 Fibres for Concrete
- Concrete Society (UK) Technical Report 34 Concrete Industrial Floors
- Concrete Society (UK) Technical Report 22 Non-Structural cracks in concrete
- Fibermesh Guidance notes for Fibermesh Reinforced concrete ground supported slabs.

SPECIFICATION CLAUSE

Fibres for concrete shall be Fibermesh® 150e3 micro-synthetic multifilament (also termed as monofilament) fibres (100 percent virgin polypropylene multifilament fibres containing no reprocessed olefin materials) conforming to EN 14889-2:2006 Class 1a and specifically engineered and manufactured in an ISO 9001:2008 certified facility for use as concrete secondary reinforcement. Fibermesh 150e3 fibres shall be added to the concrete at the batching plant at the recommended dosage rate of 0.9 kg per cubic metre and mixed for sufficient time (minimum 5 minutes at full mixing speed) to ensure uniform distribution of fibres throughout the concrete.

Fibrous concrete reinforcement shall be manufactured by:

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