



ADVANTAGES OF FIBERMESH 150-12 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
- Saves time & hassle

FIBERMESH 150-12 MICRO-SYNTHETIC FIBRE

Fibermesh 150-12, micro-reinforcement fibres for concrete are 100 percent virgin homopolymer polypropylene multifilament fibres (often described as monofilament) containing no reprocessed olefin materials. Fibermesh 150-12 micro-synthetic fibres are European Standard EN 14889-2:2006 compliant and have been specifically engineered and manufactured in an 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

- Increases resistance to explosive spalling
- Increases cohesion and reduces segregation
- Reduces settlement and bleeding
- Reduces plastic shrinkage and settlement cracking
- Increases impact and shatter resistance
- Improves abrasion resistance
- Reduces freeze/thaw damage
- Improves durability

PRIMARY APPLICATIONS

- Protection against explosive spalling
- Driveways & patterned pavements
- Architectural concrete
- Sprayed Concrete
- Precast
- 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
- Complies with ASTM C 1116 Type III 4.1.3

CHEMICAL & PHYSICAL PROPERTIES

Fibre Length	12mm	Acid & Salt Resistance	High
Type	Multifilament	Melt Point	162 °C
Absorption	Nil	Ignition Point	593 °C
Specific Gravity	0.91	Thermal Conductivity	Low
Electrical Conductivity	Low	Alkali Resistance	Alkali Proof



PRODUCT USE

MIXING: Fibermesh 150-12 micro-reinforcement is a mechanical, not chemical, process. The addition of Fibermesh 150-12 monofilament fibres do not require any additional water nor other mix design changes at normal rates. Fibermesh 150-12 fibres can be added to the mixer before, during or after batching the other constituents of the concrete. 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 150-12 micro-reinforced concrete can be pumped, sprayed or placed using conventional equipment. Hand or vibratory screeds and laser screeds can be used with Fibermesh®150-12mm micro-reinforced concrete.

FINISHING: Fibermesh 150-12 micro-fibre reinforced concrete can be finished by any finishing technique. Trowelled, Exposed aggregate, broomed and tined surfaces are no problem.

DOSAGE: The recommended dosage rate for Fibermesh 150-12 fibres, to achieve effective performance, is 0.9 kg per cubic metre. For explosive spalling resistance the dosage rate will be between 0.9 and 2.0 kg per cubic metre depending on the design requirements.

GUIDELINES

Fibermesh 150-12 fibres should not be used to replace structural, load bearing reinforcement. Fibermesh 150-12 fibres should not be used as a means of using thinner concrete sections than original design. Fibermesh 150-12 fibres should not be used to increase joint spacing beyond those dimensions suggested for unreinforced concrete.

COMPATIBILITY

Fibermesh 150-12 fibres are compatible with all concrete admixtures and performance enhancing chemicals, but require no admixtures to work effectively.

SAFETY

No special handling is required with Fibermesh 150-12 fibres. Full Safety Data Sheets are available on request.

PACKAGING

Fibermesh 150-12 fibres are available in standard 0.9 kg degradable paper bags, which are designed to be placed directly into the concrete mixer without opening. The degradable bags are packed into cartons, shrink wrapped and palletized for protection during shipping. Fibermesh 150-12 fibres are also available in a variety of packaging options to suit application on request.

TECHNICAL SERVICES

Fibermesh has a team of reinforced concrete specialists who can carefully analyze each project and provide fibre reinforced concrete design solutions to ensure maximum project performance and cost efficiency.

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.
- Austrian Association for Concrete & Building Technology - Guidelines for Fibre Concrete

SPECIFICATION CLAUSE

Fibres for concrete shall be Fibermesh 150-12 micro-synthetic monofilament fibres (100 percent virgin polypropylene fibres containing no reprocessed olefin materials) conforming to EN 14889-2:2006 Class Ia and specifically engineered & manufactured in an ISO 9001:2008 certified facility for use as concrete secondary reinforcement. Fibermesh® 150-12 fibres shall be added to the concrete at the batching plant at the recommended dosage rate of kg per cubic metre and mixed for sufficient time (minimum 5 minutes at full mixing speed) to ensure uniform distribution of the fibres throughout the concrete.

Fibrous concrete reinforcement shall be supplied by:

FIBERMESH AUSTRIA

Rindler
GmbH

Concrete casted quality

Rindler GmbH
Grossenschwandt 76,
4882 Oberwang,
AUSTRIA

www: rindler-gmbh.at
tel. +43 (0)6245 84009
email: office@rindler-gmbh.at
mobile: +43 (0)664 4252074