FIBERMESH® 150-19mm MICRO SYNTHETIC FIBRE

Fibermesh®150-19mm, formerly known as Stealth® 19mm, micro-reinforcement fibres for concrete are 100 percent virgin homopolymer polypropylene monofilament fibres containing no reprocessed olefin materials. Fibermesh® 150-19mm fibres are European Standard EN 14889-2:2006 compliant and have been specifically engineered and manufactured in an ISO 9001-2000 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.

ADVANTAGES
Non-magnetic • Rustproof • Alkali proof • Requires no minimum amount of concrete cover • Is always positioned in compliance with codes • Safe and easy to use • Saves time and hassle.

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
• Protection against explosive spalling
• Ground supported slabs
• External roads & pavements
• Driveways
• Sprayed concrete
• Precast
• Overlays and toppings
• Tanks & pools
• Walls

COMPLIANCE
• Complies with European Standard EN 14889-2:2006 Fibres for Concrete Part 2: Class 1a and carries CE marking
• ISO 9001-2000 Quality Assured
• Complies with ASTM C 1116 Type III 4.1.3

CHEMICAL & PHYSICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fibre Length</td>
<td>19 mm</td>
</tr>
<tr>
<td>Type/Shape</td>
<td>Fine Monofilament</td>
</tr>
<tr>
<td>Absorption</td>
<td>Nil</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>0.91</td>
</tr>
<tr>
<td>Electrical Conductivity</td>
<td>Low</td>
</tr>
<tr>
<td>Acid &amp; Salt Resistance</td>
<td>High</td>
</tr>
<tr>
<td>Melt Point</td>
<td>162°C (324°F)</td>
</tr>
<tr>
<td>Ignition Point</td>
<td>593°C (1100°F)</td>
</tr>
<tr>
<td>Thermal Conductivity</td>
<td>Low</td>
</tr>
<tr>
<td>Alkali Resistance</td>
<td>Alkali Proof</td>
</tr>
</tbody>
</table>
FIBERMESH® 150-19mm

PRODUCT USE

MIXING DESIGNS AND PROCEDURES: Fibermesh® 150-19mm micro-reinforcement is a mechanical, not chemical, process. The addition of Fibermesh® 150-19mm monofilament fibres do not require any additional water nor other mix design changes at normal rates. Fibermesh® 150-19mm 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® 150-19mm micro-reinforced concrete can be pumped, sprayed or placed using conventional equipment. Hand or vibratory screeds and laser screeds can be used with Fibermesh® 150-19mm micro-reinforced concrete.

FINISHING: Fibermesh® 150-19mm micro-fibre reinforced concrete can be finished by any finishing technique. Exposed aggregate, broomed and tined surfaces are no problem.

dosage rate: The recommended dosage rate for Fibermesh® 150-19mm fibres, to achieve effective performance, is 0.9 kg per cubic metre. For speciality performance please contact your local Propex Concrete Systems representative for recommendations regarding increased application rates.

GUIDELINES

Fibermesh® 150-19mm fibres should not be used to replace structural, load bearing reinforcement. Fibermesh® 150-19mm fibres should not be used as a means of using thinner concrete sections than original design. Fibermesh® 150-19mm fibres should not be used to increase joint spacing past those dimensions suggested for un-reinforced concrete.

COMPATIBILITY

Fibermesh® 150-19mm fibres are compatible with all concrete admixtures and performance enhancing chemicals, but require no admixtures to work.

SAFETY

No special handling is required with Fibermesh® 150-19mm fibres. Full Material Safety Data Sheets are available on request.

PACKAGING

Fibermesh® 150-19mm fibres are available in standard 0.9 kg degradeable 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® 150-19mm fibres are packaged, packed into cartons, shrink wrapped and palletized for protection during shipping.

TECHNICAL SERVICES

Propex Concrete Systems is backed by our 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.

REFERENCES

• European Standard EN 14889-2: 2006 Fibres for Concrete
• 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® 150-19mm 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 9001-2000 certified facility for use as concrete secondary reinforcement. Fibermesh® 150-19mm 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 the fibres throughout the concrete. Fibrous concrete reinforcement shall be manufactured by:

Propex Concrete Systems, Propex House, 9 Royal Court, Basil Close, Chesterfield, Derbyshire, S41 7SL. United Kingdom. Telephone: +44 (0) 1246 564200, Fax: +44 (0) 1246 564201, e-mail: enquiries@propexinc.co.uk

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