SE MicroM is a monofilament concrete fiber, manufactured from 96% virgin polypropylene, provides long-term durability and excellent crack control, increases impact resistance.

Description

SE MicroM fiber product is a kind of monofilament polypropylene fibers which is specially designed to reduce plastic cracking of concrete.

Application

SE MicroM product can be used in all type of concrete such as Internal Floor Slabs, Bridges, Concrete Framed Buildings, Stucco, Underground Construction, Piling Concrete, Agricultural Areas, Driveways, Water Retaining Structures, Sidewalks, Precast Concrete, Shotcrete/Gunite, Extruded Concrete, Curbs. Fibers are available in three different lengths (18, 12, 6 mm) that are selected based on application. Fibers with the length of 6mm, are usually used in plaster and stucco. Fibers with the length of 12 mm can be used in ready mixed concrete, shotcrete, precast concrete and flooring. 18mm fibers is ideal to use in flooring, press concrete and suspended ceiling. These fibers are appropriate to use with wire mesh.

ADVANTAGES AND BENEFITS

- Reduces plastic shrinkage
- Reduces plastic settlement cracking
- Alternative to mesh for crack control
- Improves freeze/thaw resistance
- Resistant to alkaline/acidic enviroments
- Improves impact and abrasion resistance
- Improves multi-dimensional reinforcement
- Enhances durability
- Enhances toughness of concrete
- Excellent distribution

TERMEH Corporation

Concrete Fiber Department

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Dosage

The dosage of SE MicroM product is 0.6 to 1.5 kg/m³, depending on local conditions, specifications and practices.

Mixing

Typically no modifications to the mixture properties are required when the product is used at the normal recommended dosage rate and standard mixing and finishing practices are followed. SE MicroM can be added directly to the mixing system during or after the batching of the ingredients and mixed at high speed for five minutes.

Packaging

900g per small paper or water soluble transparent bags, 30 bags per carton and 12 cartons per pallet.

Storage

SE MicroM should be stored in dry storehouse. Protect the product from the rain.

Note: SE MicroM product is not a replacement for structural steel reinforcement and therefore should not be used to replace any of the load-carrying steel reinforcement in a concrete element.

PHYSICAL PROPERTIES

<table>
<thead>
<tr>
<th>MATERIALS</th>
<th>Polypropylene</th>
</tr>
</thead>
<tbody>
<tr>
<td>FORM</td>
<td>Monofilament</td>
</tr>
<tr>
<td>SPECIFIC GRAVITY</td>
<td>0.91 (g/cm³)</td>
</tr>
<tr>
<td>MELTING POINT</td>
<td>160 °C (320 °F)</td>
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<tr>
<td>IGNITION POINT</td>
<td>590 °C (1094 °F)</td>
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<tr>
<td>WATER ABSORPTION</td>
<td>Nil</td>
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<tr>
<td>COLOR</td>
<td>White</td>
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<tr>
<td>DENIER</td>
<td>3.5</td>
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<tr>
<td>AVAILABLE LENGTHS</td>
<td>6,12,18 mm</td>
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<tr>
<td>ACID/ALKALI RESISTANCE</td>
<td>Excellent</td>
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<tr>
<td>TENSILE STRENGTH</td>
<td>265 MPA</td>
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