

03 30 00	Cast-in-Place Concrete
03 37 13	Shotcrete
03 40 00	Precast Concrete
03 70 00	Mass Concrete

MasterFiber[®] M 35

Monofilament Microsynthetic Fiber

Description

MasterFiber M 35 product is a monofilament polypropylene fiber manufactured from 100% virgin homopolymer polypropylene resins. MasterFiber M 35 product meets the requirements of ASTM D 7508/ D 7508 M, ASTM C 1116/C 1116M, Section 4.1.3, Type III, and Note 2. MasterFiber M 35 product is specifically engineered to reduce plastic shrinkage cracking of concrete. MasterFiber M 35 product disperses well in the concrete matrix and visible evidence of a superior finishability makes it a good candidate for all residential applications.

Applications

Recommended for use in:

- Sidewalks
- Residential slabs-on-ground
- Commercial slabs-on-ground
- Precast products
- Pool and pool decks
- Water retention tanks
- Shotcrete

Features

- Excellent distribution
- Excellent finishability
- Excellent reduction in plastic shrinkage cracking

Benefits

- Reduces plastic settlement
- Extends service life with reduced maintenance

Performance Characteristics

Physical Properties

Specific Gravity	0.91
Melting Point	320 °F (160 °C)
Ignition Point	1,094 °F (590 °C)
Absorption	Nil
Alkali Resistance	Excellent
Tensile Strength	30 ksi (205 MPa)
Modulus of Elasticity	325 ksi (2.24 GPa)
Length	0.75 in. (19 mm)
Equivalent Diameter	0.0009 in. (23 microns)
Denier	3.5 dpf

Guidelines for Use

Dosage: The dosage of MasterFiber M 35 product is 0.5 to 0.75 lb/yd³ (0.3 to 0.45 kg/m³), depending on local conditions, specifications and practices.

Mixing: Typically no modifications to the mixture proportions are required when the product is used at the dosage of 0.5 to 0.75 lb/yd³ (0.3 to 0.45 kg/m³) and standard mixing and finishing practices are followed. The MasterFiber M 35 product can be introduced into the mixer at any time except when the cement is being introduced. Mixing time will vary based on when the fibers are introduced to the mixer. The normal range is 3-5 minutes of mixing with the higher

number preferred when the fibers are added after all of the standard ingredients have been introduced and mixed.

Engineering Specifications

MasterFiber M 35 product is engineered specifically to perform as a plastic shrinkage reinforcement for concrete. For optimum performance, a dosage of 0.5 lb/yd³ (0.3 kg/m³) is recommended. MasterFiber M 35 product is compatible with admixtures and additives that meet the appropriate ASTM specifications.

MasterFiber M 35 product meets the requirements of ASTM D 7508/D 7508M, ASTM C 1116/C 1116M, Section 4.1.3 Type III, and Note 2.

Product Notes

MasterFiber M 35 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.

Packaging

MasterFiber M 35 product is packaged in pre-weighed 0.5 lb (0.2 kg) and 0.66 lb (0.3 kg), degradable bags to ensure optimum dosing and homogeneous distribution of the product.

Related Documents

Safety Data Sheets: MasterFiber M 35 product

Additional Information

For Additional information on MasterFiber M 35 product contact your local sales representative.

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