

|          |                               |
|----------|-------------------------------|
| 03 30 00 | <b>Cast-in-Place Concrete</b> |
| 03 37 13 | <b>Shotcrete</b>              |
| 03 40 00 | <b>Precast Concrete</b>       |
| 03 70 00 | <b>Mass Concrete</b>          |

# MasterFiber<sup>®</sup> 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
- Pool and pool decks
- Water retention tanks
- Shotcrete
- Precast
- Shotcrete and Tunneling

### Features

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

### Benefits

- Reduces plastic settlement
- Extends service life with reduced maintenance
- Mitigates Explosive Fire Spalling

### 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/yd<sup>3</sup> (0.3 to 0.45 kg/m<sup>3</sup>), 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/yd<sup>3</sup> (0.3 to 0.45 kg/m<sup>3</sup>) 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/yd<sup>3</sup> (0.3 kg/m<sup>3</sup>) 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.

*Master Builders Solutions creates technologies for the construction industry inspiring people to build better. We are active in ~40 countries and operate 35 production sites with over 1,600 employees. We develop, produce, and market high-quality chemical admixtures, as well as adjacent core technologies, to master the challenges of today and support a decarbonized future. Our people are pivotal and pair leading technologies and a strong brand heritage to surpass our customers' expectations and drive continuous value creation.*

## Limited Warranty Notice

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