

# MasterFiber<sup>®</sup> M 70

## Monofilament Microsynthetic Fiber

### Description

MasterFiber M 70 product is a monofilament polypropylene fiber manufactured from 100% virgin homopolymer polypropylene resins. MasterFiber M 70 product meets the requirements of ASTM C 1116/C 1116M, Section 4.1.3, Type III, and Note 2 and the requirements of ICC ES AC32 Section 3.1.1 (plastic shrinkage reinforcement).

MasterFiber M 70 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
- Decks
- Patios
- Residential driveways
- Pool decks
- Extruded curbs and gutter
- Basement and garage floors
- Stucco

### Features

- Excellent distribution
- Excellent finishability

### Benefits

- Modifies macro- and micro-cracking mechanisms
- Reduces plastic settlement
- Extends service life with reduced maintenance
- Enhances impact and surface abrasion resistance

### 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	25,000 psi (170 MPa)
Modulus of Elasticity	300 ksi (2.07 GPa)
Length	0.75 in. (19 mm)
Denier (Diameter)	7 dpf (33 microns)

## Guidelines for Use

**Dosage:** The dosage of MasterFiber M 70 product is 0.75 to 1.5 lb/yd<sup>3</sup> (0.45 to 0.90 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 1.0 lb/yd<sup>3</sup> (0.6 kg/m<sup>3</sup>) and standard mixing and finishing practices are followed. The MasterFiber M 70 product fibers 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 70 product is engineered specifically to minimize plastic shrinkage cracking in concrete. For optimum performance, a dosage of 1.0 lb/yd<sup>3</sup> (0.6 kg/m<sup>3</sup>) is recommended.

MasterFiber M 70 product meets the requirements of ASTM C 1116/C 1116M, Section 4.1.3 Type III, and Note 2, as well as ICC ES AC32 Section 3.1.1.

## Product Notes

MasterFiber M 70 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 70 product is packaged in pre-weighed 0.75 lb (0.34 kg), 1.0 lb (0.45 kg), and 5 lb (2.3 kg) degradable bags to ensure optimum dosing and homogeneous distribution of the product.

## Related Documents

Safety Data Sheets: MasterFiber M 70 product

## Additional Information

For additional information on MasterFiber M 70 product contact your local sales representative.

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