

# MasterFiber F 018

Synthetic fibrillated microfibre for the reduction of plastic shrinkage cracking and improved impact resistance of cementitious mixes

## Material Description

**MasterFiber F 018** is a fibrillated microfibre made from 100% virgin polypropylene specifically engineered to be used for the reduction of plastic shrinkage cracks, and to improve impact resistance in cementitious applications. **MasterFiber F 018** can be used in all concrete works where problems due to plastic shrinkage and/or inadequate curing cause cracking.

**MasterFiber F 018** conforms to the requirements of EN 14889.2 Class Ib.

## Areas of Application

**MasterFiber F 018** applications include, but are not limited to:

- Slabs on ground: footpaths, shared user paths, residential and commercial floors
- Precast: Panels, sleepers, and aesthetic elements

## Characteristics & Benefits

- Improved green strength
- Enhances long-term durability
- Reduction in plastic shrinkage cracking
- Reduced plastic settlement cracking
- Reduced segregation and improved cohesion
- Improved concrete toughness
- High bond with mortar compared to traditional microfibres
- Excellent finishability

## Properties

Polymer type	Virgin polypropylene
Fibre type	Fibrillated (Class Ib)
Length	18 mm
Nominal diameter	40 $\mu$ m
Ultimate tensile strength	450 MPa
Density	910 kg/m <sup>3</sup>
Melting point	162°C
Absorption	Nil
Acid/alkali resistance	High

## Dosing & Batching

The typical dose rate of **MasterFiber F 018** is 0.9 kg/m<sup>3</sup>. **MasterFiber F 018** is packed in pre-weighed degradable bags that can be added directly to the concrete mixer. It is recommended to add fibre into a zone of sufficient shear to aid in fast fibre distribution through the mix.

After the addition of **MasterFiber F 018** to the mix, it is recommended to mix for 3 to 5 minutes.

## Packaging

**MasterFiber F 018** comes in pre-weighed 0.9 kg degradable bags to ensure optimum dosing and distribution.

1 box of **MasterFiber F 018** contains 12 x 0.9 kg bags.

## Storage & Shelf Life

**MasterFiber F 018** should be stored undercover in a clean, dry area, protected from the weather. Use caution when stacking to avoid unstable conditions.

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## Note

Field service support, where provided in no way constitutes supervisory responsibility. For additional information please contact your local Master Builders Solutions representative. MB Solutions reserves the right to have the true cause of any technical challenge determined by accepted test method.

## Disclaimer

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### STATEMENT OF RESPONSIBILITY

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