

# MasterFiber M 018

Synthetic monofilament microfibre for the reduction of plastic shrinkage cracking of cementitious mixes

## Material Description

MasterFiber M 018 is a monofilament microfibre made from 100% virgin polypropylene specifically engineered to reduce plastic shrinkage cracking. MasterFiber M 018 can be used in all concrete works where problems due to plastic shrinkage and/or inadequate curing cause cracking.

MasterFiber M 018 conforms to the requirements of EN 14889.2 Class Ia.

## Areas of Application

MasterFiber M 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
- Shotcrete: Tunnelling

## Characteristics & Benefits

- Reduction in plastic shrinkage cracking
- Reduced plastic settlement
- Reduces freeze/thaw cracking
- Excellent finishability
- Extended service life of the concrete element with reduced maintenance
- Can provide reduction in spalling under elevated temperatures

## Properties

Polymer type	Virgin polypropylene
Fibre type	Monofilament (Class Ia)
Length	18 mm
Equivalent diameter	32 $\mu$ 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 M 018 is 0.6 kg/m<sup>3</sup>. MasterFiber M 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 M 018 to the mix, it is recommended to mix for 3 to 5 minutes.

## Packaging

MasterFiber M 018 comes in pre-weighed 0.6 kg degradable bags to ensure optimum dosing and distribution.

1 box of MasterFiber M 018 contains 35 x 0.6 kg bags.

## Storage & Shelf Life

MasterFiber M 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

MasterFiber M 018-ANZ-V6-0226

### STATEMENT OF RESPONSIBILITY

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### NOTE

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