

MasterFiber M 080

Monofilament microfibre for reduced spalling of concrete in hydrocarbon fire situations

Material Description

MasterFiber M 080 is a monofilament microfibre made from 100% virgin homopolymer polypropylene specifically engineered to reduce plastic shrinkage cracking and control fire-induced explosive spalling in concrete.

MasterFiber M 080 complies with the requirements of EN14889.2 (Class Ia).

Areas of Application

MasterFiber M 080 is appropriate for use in tunnelling, precast products, shotcrete, residential slabs-on-ground, and stucco.

Characteristics and Benefits

- 725 million 6 mm microfibres per 1 kg of product.
- Uniformly distributes throughout the concrete with excellent finishability.
- Excellent reduction in plastic shrinkage cracking.
- Reduces fire-induced explosive spalling of concrete when used at appropriate dosages.

Properties

Length (EN14889.2)	6 mm
Equivalent Diameter (EN14889.2)	18 microns
Tensile strength (EN14889.2)	450 MPa
Specific Gravity	0.91
Absorption	Nil
Alkali Resistance	Excellent
Melting Point	160°c
Ignition Point	590°c

Dosing & Batching

Add 1-2 kg of fibres (depending on required performance) to the concrete mixer after water and admixtures. After addition of the fibres, mix for at least 2-3 minutes to ensure even distribution of fibres within the concrete mix.

Note that in the event that a slight slump loss is experienced after the addition of the fibres - the mix design should be reviewed such to allow for fibre inclusion and avoidance of addition of extra water.

Site trials with the intended concrete mix design must be conducted to verify and determine the performance of the fibre with the proposed mix.

It is recommended that where automated fibre dosing systems are utilised, that they be checked for suitability and calibrated accordingly.

Packaging

MasterFiber M 080 is available in 1 kg paper bags or 450 kg bulk bags.

Storage

MasterFiber M 080 is to be stored undercover and protected from the weather.

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 an accepted test method.

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Disclaimer

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STATEMENT OF RESPONSIBILITY

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NOTE

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