

MasterFiber 343

Hybrid synthetic fibre for crack control in the early and late stages of cast and poured concrete applications

Material Description

MasterFiber 343 is a blend of engineered synthetic macro and microfibres to control early age and hardened shrinkage cracking. **MasterFiber 343** has been developed to provide post-crack flexural strength to enable the replacement and/or supplementation of existing concrete reinforcement products.

Areas of Application

MasterFiber 343 can be used in slabs-on-ground and precast concrete products.

Typical applications of **MasterFiber 343** include, but are not limited to, the following:

- Industrial and warehouse slabs-on-ground
- Residential and commercial slabs-on-ground
- Concrete pavements and footpaths
- Architectural precast panels

Characteristics and Benefits

- Improves concrete green strength
- Reduces plastic shrinkage and settlement cracking
- Enhances ductility, durability, and post-crack flexural strength
- Decreases construction time and overall labour and material costs
- Provides effective crack control

Properties

Macrofibre

Material	Virgin Polypropylene
Thickness	0.6 mm
Width	1.2 mm
Length	47 mm
Tensile strength (EN14889-2)	550 MPa
Modulus of Elasticity (EN14889-2)	10 GPa
Density	0.91 g/cm ³
No. of fibres per box	112,000

Microfibre

Material	Virgin Polypropylene
Diameter	18 µm
Length	12 mm
Tensile strength (EN14889-2)	450 MPa
Density	0.91 g/cm ³
No. of fibres per box	215,920,000

Dosing & Batching

The recommended dosage is 1 box of **MasterFiber 343** (4.6 kg/m³).

MasterFiber 343 is packaged in pre-weighed, ready-to-use, recycled cardboard boxes which are designed to be introduced at any time before or during mixing of the concrete. It is recommended to mix for at least 2-3 minutes to ensure even distribution of fibres within the concrete mix.

MasterFiber 343

Hybrid synthetic fibre for crack control in the early and late stages of cast and poured concrete applications

Packaging

1 Pallet of **MasterFiber 343** is made up of:

- 114 x 4.6kg mulchable boxes = 524.4kg per pallet

Each pallet is covered by a waterproof cover. The macrofibre component of **MasterFiber 343** is wrapped in water-soluble PVA to form bundles to improve dispersion.

Storage & Shelf Life

MasterFiber 343 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 accepted test method.

Disclaimer

MasterFiber-343-ANZ-V3-0924

STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this MB Solutions Australia Pty Ltd publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use and for ensuring that the application and use of the product is in accordance with the manufacturer's guidelines and recommendations.

NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by MB Solutions Australia Pty Ltd either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not MB Solutions Australia Pty Ltd, are responsible for carrying out procedures appropriate to a specific application.

MB Solutions Australia Pty Ltd

ABN 69 634 934 419
Suite 102, 2 Burbank Place
Norwest NSW 2153
Freecall: 1300 227 300
www.master-builders-solutions.com/en-au

MB Solutions New Zealand Ltd

45C William Pickering Drive
Auckland
New Zealand
Phone: +64 9 414 7233

Emergency Advice:

1300 954 583 within Australia (24hr)
0800 001 607 within New Zealand