

# MasterFiber 051

Fibrillated polypropylene fibre micro-reinforcement system

## Material Description

**MasterFiber 051** is a fibrillated micro fibre for secondary concrete reinforcement.

**MasterFiber 051** is engineered to reduce plastic and settlement cracking, improve impact strength, enhance fatigue resistance, and maximise concrete toughness.

This fibrillated fibre is manufactured to offer long term durability and secondary/temperature control.

The addition of micro fibrils attached to the primary fibre allow for additional anchorage sites providing a stronger fibre-to-matrix bond, as a result increased performance over non-fibrillated fibre.

**MasterFiber 051** is non-corrosive, non-magnetic, chemically inert and 100% alkali proof.

## Areas of Application

**MasterFiber 051** is recommended for use in concrete applications such general purpose slab-on-grade, toppings, slope paving, driveways, basement floors etc.

**MasterFiber 051** is TMR approved for use in extruded concrete mixes for jersey barriers, kerbs, and gutters where a ductile material is required.

**MasterFiber 051** increases:

- Impact and shear resistance
- Fatigue and abrasion resistance
- Concrete toughness
- Long-term durability

**MasterFiber 051** decreases:

- Plastic shrinkage
- Settlement cracking

## Properties

**MasterFiber 051** is a micro-fibrillated fibre.

Materials	100% virgin polypropylene
Form	Fibrillated
Colour	White
Dose Rate	0.9 kg/m <sup>3</sup>
Length	51mm
Tensile Strength	450 MPa
Specific Gravity	0.91
Melting Point	Approx. 160 °C
Acid/alkali resistance	Excellent
Absorption	Nil
Compliance	EN14889.2

## Dosage

The recommended dose rate for **MasterFiber 051** is 0.9 kg/m<sup>3</sup>.

## Application

**MasterFiber 051** can be added directly to the concrete mixing system during the batching of other materials.

For best results, **MasterFiber 051** should be added to the concrete mix before the batching process. The addition of **MasterFiber 051** should not require a change to the mix design but minor impact to flow and slump properties may occur.

Trials should be performed to determine performance and an appropriate mix design.

For more detailed mixing and dosing information, contact your Master Builders Solutions Technical Sales Representative.

## Packaging

Bags	0.9 kg Mulchable
Carton	12 Bags
Pallet	27 Cartons

# MasterFiber 05I

Fibrillated polypropylene fibre micro-reinforcement system

## Storage

MasterFiber 05I should be stored undercover and protected from the weather.

## Disclaimer

MasterFiber-05I-ANZ-V10-0623

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