

# MasterFiber<sup>®</sup> MAC 360FF

Structural synthetic hybrid polypropylene fibre for optimum finishing performance

## DESCRIPTION

**MasterFiber MAC 360FF**, a synthetic hybrid fibre, is manufactured from a proprietary blend of polypropylene resins for use in making fibre-reinforced concrete in compliance with the requirements of ASTM C 1116/C 1116M “Standard Specification for Fiber-Reinforced Concrete” and EN 14889-2 “Fibres for concrete – Part 2: Polymer Fibres-Definitions, specifications and conformity.”

**MasterFiber MAC 360FF** hybrid fibre is a blend of synthetic micro- and macrofibres engineered for use as shrinkage and temperature (secondary) reinforcement and, specifically, to provide optimum finishing performance in hard-troweled concrete applications.

## APPLICATIONS

Recommended for use in:

- Hard-troweled concrete
- Industrial and warehouse flooring
- Residential and commercial flooring
- Concrete pavements, white-topping and overlays
- Composite metal decks
- Architectural panels

## METHOD OF USE

**MasterFiber MAC 360FF** hybrid fibre is packaged in pre-weighed, ready-to-use, degradable bags which are designed to be introduced at any time before or during mixing of concrete produced in accordance with procedures specified in ASTM C 94/C 94M.

## PACKAGING

**MasterFiber MAC 360FF** is available in 2.27kg bags.



## PERFORMANCE CHARACTERISTICS PHYSICAL PROPERTIES\* (MACRO FIBRE COMPONENT)

Properties	Value
Material	Polyolefin 100%
Design	Hybrid (micro & macro fibre)
Specific gravity	0.91 g/cm <sup>3</sup>
Length	50 mm
Equivalent diameter	0.60 mm
Aspect ratio (L/D)	83
Alkali resistance	Excellent
Absorption	Nil
Tensile strength	585 MPa
Modulus of elasticity	11.0 GPa
Chemical resistance	Excellent
Melting point	160°C
Ignition point	590°C

The Technical Data reflected here is the result of statistical information and does not represent guaranteed minimums. If control data is required, this can be obtained by requesting the Sales Specifications from our Technical Department.

## DOSAGE

The recommended minimum dosage for **MasterFiber MAC 360FF** hybrid fibre is 1.8 kg/m<sup>3</sup>. For most applications, the recommended dosage will be in the range of 1.8 to 4.5 kg/m<sup>3</sup>. However, depending on the specific application, a higher dosage may be recommended by BASF Construction Chemicals UAE LLC.

## STORAGE AND SHELF LIFE

**MasterFiber MAC 360FF** should be stored at temperatures below 60°C. Avoid storing near strong oxidizers and avoid sources of ignition.

Shelf life is 24 months when stored as above.

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## SAFETY PRECAUTIONS

MasterFiber MAC 360FF is extremely stable, presenting little to no hazard to health, however, in fire conditions; carbon monoxide, carbon dioxide, other gases and fumes may be evolved. Use caution when stacking to avoid unstable conditions.

## HANDLING AND TRANSPORT

The usual precautions and measures should be taken for handling any chemical substance. Use caution when stacking to avoid unstable conditions. Use protective gloves and glasses. Wash hands before a break and on finishing work. Do not eat, drink or smoke during application.

The disposal of the product and its packaging is the responsibility of the end user and should be carried out according to current legislation.

## IMPORTANT NOTES

- It is recommended to test all fibres prior to use.
- Do not use a fibre dosage outside of the recommended dosage range unless specifically advised by our Technical Department

For more information, please consult the Safety Data Sheet of this Product.

## NOTE

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local BASF representative.

BASF reserves the right to have the true cause of any difficulty determined by accepted test methods.

## QUALITY AND CARE

All products originating from BASF's Dubai, UAE facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and OHSAS 18001.

\* Properties listed are based on laboratory controlled tests.

® = Registered trademark of the BASF-Group in many countries.

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## STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this BASF 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.

## NOTE

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