

# MasterFiber 236

**Polypropylene macro synthetic fibers for reinforced concrete, class II following the EN 14889-2.**

## DESCRIPTION AND WHERE TO USE

MasterFiber 236 is an extruded polypropylene macro synthetic formed into a crimped profile.

The sinusoidal shape improves the bond within the concrete and so reduces pull-out and enhances concrete performance providing toughness and ductility to the material. MasterFiber 236, thanks to the very high alkali resistance is strongly advised for FRC to be placed in aggressive areas, where a high chemical resistance is needed, and corrosion from chlorides can happen.

MasterFiber 236 can be easily dispersed in the concrete mix to ensure a homogeneous FRC.

MasterFiber 236 can be used in many construction applications. They include:

- Internal/external floor slabs.
- Concrete slabs for aesthetic and industrial paving.
- Non structural precast concrete elements/MCP.
- Screeds for heated floors in partial or total replacement of continuous reinforcement.



**Macro synthetic fibres MasterFiber 236**

## DIRECTIONS FOR USE

MasterFiber 236 is best dispersed when added after water and admixture, preferably during the aggregates load on the loading belt in the ready mix plant. If a forced action pan mixer, or equivalent, is used MasterFiber 236 are added after all the concrete ingredients. We advise to mix for 5 min. in order to assure a homogeneous concrete.

## PERFORMANCE DATA AND PHYSICAL PROPERTIES OF MASTERFIBER 236

Type of polymer	Polypropylene compound
Diameter (mm)	0,75
Fiber lengths (mm)	30
Length /diameter Ratio	40
Color	White-transparent
Density (g/cm <sup>3</sup> )	approx.1
Melting Point (°C)	155-165
Tensile strength at yield (N/mm <sup>2</sup> )	400-450
Elastic Modulo (MPa)	4003
Water absorption	0
Acid/alkali resistance	high
Number of fibres per kg	approx. 70.000
Decomposition temperture (°C)	280

## COMPATIBILITY

MasterFiber 236 is compatible with all the other admixtures manufactured by BASF Construction Chemicals Italia Spa. MasterFiber 236 is strongly advised in combination with MasterGlenium PAV, for industrial floor slabs, with MasterGlenium SKY, MasterEase for ready-mix and MasterGlenium ACE for precast concrete.

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## DOSAGE RATE

Can range from 1.5 to 9.0 kg/m<sup>3</sup>.

However, dosage rates are dependent on the specific application.

**The use of macro synthetic fibre MasterFiber 236 as a replacement of the traditional steel can be done according to the DM. 17/01/2018 (Norme Tecniche per le Costruzioni) e Circolare n. 7/2019**

For further advice or before using, contact BASF Construction Chemicals Italia Spa Technical Services Department.

## PACKAGING AND STORAGE

The standard packaging for MasterFiber 236 is plastic bags of 6 kg in weights to suit dosing into the mixer.

Special packaging, as water soluble in different weight can be ordered.

Material is very stable, no foreseen hazards. Protect against fire.

From 16/12/1992 BASF Construction Chemicals Italia Spa operates under the Quality System in compliance with European Standard UNI-EN ISO 9001. The environmental management system of BASF Construction Chemicals Italia Spa is certified accordingly to UNI EN ISO 14001 and the System of Safety Management is certified accordingly to OHSAS 18001. Environment sustainability: Partner Green Building Council since 2009.

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For further information, please consult your local BASF Construction Chemicals Italia Spa representative.

The technical advice on how to use our products, either written or verbally given, are based on the present state of our best scientific and practical knowledge, and no guarantee and/or implicit or explicit responsibility are assumed on final results of works executed by the use of our products.

The owner, his representative, or the contractor is responsible for checking the suitability of our products as to the intended use and aims.

Supersedes all prior issues on this product.

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