

MasterFiber 247 SPA

Polypropylene macro synthetic fibers for reinforced concrete in water soluble pucks.

Material description

MasterFiber 247 SPA 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 247 SPA, 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 247 SPA can be easily dispersed in the concrete mix to ensure a homogeneous FRC.

Fields of application

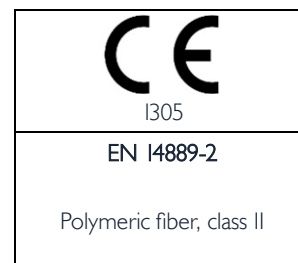
MasterFiber 247 SPA can be used in many construction applications. They include:

- internal/external floor slabs,
- external hardstandings and pavements,
- non structural precast concrete elements/MCP,
- agricultural areas,
- marine/coastal defence concrete,
- shotcreting applications.



Macro synthetic fibres MasterFiber 247 SPA

In compliance with the European Regulation (EU No 305/2011 and EU No. 574/2014) the product is provided with the CE marking according to UNI EN 14889-2 and the relative DoP (Declaration of Performance).



Dosage

Can range from 1.5 to 9.0 kg/m³.

However, dosage rates are dependent on the specific application.

The use of macro synthetic fibre MasterFiber 247 SPA as a replacement of the structural steel reinforcement 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 Master Builders Solutions Italia Spa Technical Services Department.

Packaging and storage

The standard packaging for MasterFiber 247 SPA is available in 65 gr puck in a plastic bag of 6 kg in weights to suit dosing into the mixer. Please store in a dry place.

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

Directions for use

MasterFiber 247 SPA 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 247 SPA are added after all the concrete ingredients.

We advise to mix for 5 min. in order to assure a homogeneous concrete.

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Technical Information	
Fiber class	II
Water adsorption	null
Alcaly Resistance	high
Melting point (° C)	155-165
Number of fibres per kg	Approx. 50000
Decomposition temperature (°C)	280
Essential characteristic in accordance to EN 14889-2	Performance
Type of polymer	Polypropylene compound
Colour	White-transparent
Density [kg/m ³]	910
Longitudinal shape	wavy
Section shape	irregular
diameter [mm]	0.80
Length [mm]	40
Length / Diametre Ratio	50
Toughnesses index (N/mm ²)	600
Elastic modulus (N/mm ²)	5.600
Effect on the consistency of the concrete [fiber dosage in kg / m ³ , Vebe time in s with fibers]	2.9 1.5

Compatibility

MasterFiber 247 SPA is compatible with all the other admixtures manufactured by Master Builders Solutions Italia Spa. The use of MasterFiber 247 SPA is strongly advised in combination with MasterGlenium PAV, for industrial floor slabs, with MasterGlenium SKY, MasterEase in ready-mixed and MasterGlenium ACE in precasted concrete.

Safety information

For information on the correct and safe use, transport, storage and disposal of the product, consult the most recent Safety Data Sheet.



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Other services

For additional technical information, brochures, references, technical reports and technical support please visit www.master-builders-solutions.com/it-it or alternatively contact infomac@masterbuilders.com.

Scan QR code to visit the product page and download the latest version of this technical data sheet and any additional documentation.



Disclaimer

Since 16/12/1992, Master Builders Solutions Italia Spa has been operating under a Certified Quality System compliant with the UNI EN ISO 9001 Standard. Furthermore, the Environmental Management System is certified according to the UNI EN ISO 14001 Standard and the Safety Management System is certified according to the UNI ISO 45001 Standard.

For further information, please consult the local Technician of Master Builders Solutions. The technical advice on how to use our products, either written or verbally given, are based on the current state of our scientific and practical expertise, and does not imply the assumption of any guarantee and/or responsibility for the final results of works executed using our products.

Therefore, the customer is not exempted from the exclusive task and responsibility of verifying the suitability of our products for the intended use and purposes.

This version supersedes all the previous ones.

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