

MasterFiber 012

Polypropylene micro fibers for the prevention of plastic shrinkage cracking of cementitious mixes, in water soluble paper bags.

Material description

MasterFiber 012 is a polypropylene micro fiber agglomerated into flocks by a special water soluble sizing. They have a high specific surface and are specially designed to prevent or reduce the risk of plastic shrinkage cracking of concrete.

Fields of application

MasterFiber 012 are used in all the concrete works where problems due to plastic shrinkage and/or inadequate curing may cause severe damage such as concrete floors, slabs, tanks, exposed surfaces, etc.

Properties of MasterFiber 012 are enhanced by the use of MasterRheobuild, MasterGlenium, MasterEase, MasterCO₂re superplasticizers in mixes. Moreover, MasterFiber 012 have several other properties that make them especially suitable in cement matrices:

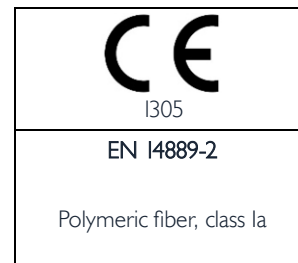
- high chemical resistance in alkaline environment;
- no degradation due to the presence of molds, fungi, etc.



Synthetic micro-fibers MasterFiber 012

The distribution of the fibers inside the matrix occurs in the initial phase of mixing the flakes are disperse uniformly in the cement matrix. Then the mix water dissolves the water soluble glue and the fibers are separated from the flakes and uniformly dispersed.

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

To prevent the plastic shrinkage, the advised dosage for MasterFiber 012 is a water soluble paper bag of 0.6 Kg per m³ of concrete.

For further advice or before using, contact Master Builders Solutions Italia Spa Technical Services Department.

Packaging and storage

MasterFiber 012 are packaged in 0.6 kg water soluble bags in boxes of 18 kg.

We advise to store MasterFiber 012 in a dry place and in closed boxes. The shelf life is 48 months, if stored in original packaging between +5 °C and +30 °C protected from humidity and direct sun light.

Directions for use

MasterFiber 012 are added either to the dry components and mixed or added to the already mixed paste in the mixer just before starting the pouring operation. In both cases, a few minutes' mixing is enough to obtain a good dispersion of the fibers.

MasterFiber 012 must never be added to mix water alone before introducing the other components.

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Technical Information	
Fiber class	1a
Water adsorption	null
Alcaly Resistance	high
Melting point (° C)	160
Essential characteristic in accordance to EN 14889-2	
Type of polymer	polypropilene
Colour	colourless
Density [kg/m ³]	910
Linear density [dtex]	6.6
Longitudinal shape	straight
Section shape	round
diameter [mm]	0.034
Length [mm]	12.2
Length / Diametre Ratio	358
Inginition temperature [°C]	>300
Toughness [cN/dtex]	31.9
Effect on the consistency of the concrete [fiber dosage in kg / m ³ , Vebe time in s with fibers]	0.6 10.0

Compatibility

MasterFiber 012 are compatible with all the other admixtures manufactured by Master Builders Solutions Italia Spa.

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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