

FIBROMAC™ 12 MONO-FILAMENTARY POLYPROPYLENE FIBRE

SOCOTEC CERTIFICATION N. MX0464/1

PRESENTATION

Polypropylene fibres with CE marking, for non structural purposes, in compliance to UNI EN 14889-2.

The FIBROMAC™ 12 is a mono-filamentary fibre made from virgin polypropylene. This fibre is made to be included in the cementitious matrix in order to constitute a homogeneous material, able to inhibit plastic shrinkage cracking.

PROPERTIES

The FIBROMAC™ 12 can be mixed and homogeneously dispersed in the concrete, allowing to control its plastic shrinkage and, consequently, increasing compactness and resistance to micro-cracking.

Inert and stable, FIBROMAC™ 12 is indifferent to corrosion and chemical agents and is superficially treated.



Figure 1

TECHNICAL CHARACTERISTICS OF THE FIBRES

• Base material:	Virgin polypropylene
• Specific weight:	0.91g/cm ³
• Melting point:	160°C
• Tensile strength:	450 MPa
• Break elongation:	> 40%
• Colour:	white
• Length:	12 mm nominal
• Section:	circular
• Young's modulus:	3700 MPa
• Diameter:	32 microns

STANDARDS AND REFERENCES

- EN 14845-2:2007 - Test method for fibres in concrete - Part II: Effect on concrete
- EN 14889-2: 2006 - Fibres for concrete-Part II: Polymer fibres - Definitions, specifications and conformity
- CNR – DT 204/2006 – Guide for the design and construction of fibre reinforced concrete structures

MIXING PROCEDURE

The fibres are added directly in the concrete mixer after all the other components, with an additional mixing during some minutes, until their complete dispersion.

STORAGE

Preserve the pallets from atmospheric corrosion

PACKAGING:

- 16 biodegradable sacks of 900 grams per box on a 55 boxes pallet
- 30 biodegradable sacks of 600 grams per box on a 30 boxes pallet

FIELDS OF APPLICATION:

Plastic shrinkage cracking control for concrete, mortar and grout

Examples of applications:

- Commercial floorings
- Industrial floorings
- Pavements
- Airport taxiways and parking areas
- Chimneys and linings
- Curtain walls

The producer, for his optimisation and improving process of the product's technical characteristics, has the faculty to modify the standards and the characteristics of the product without any pre-advice. All the information are given in base to our experience; in any case no responsibility for an incorrect use could be referred to the producer or one of his distributors.

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