

FIBROMAC® FR
MONO-FILAMENTARY POLYPROPYLENE MICROFIBRE**PRESENTATION**

The FIBROMAC® FR is a mono-filamentary fibre obtained by virgin polypropylene. This fibre is made to be included in the cement matrix (concrete, grout,...) in order to constitute an homogeneous material able to inhibit plastic shrinkage cracking and to reduce explosive spalling and damage in event of a fire.

PROPERTIES

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

Inert and steady, FIBROMAC®FR is indifferent to corrosion and chemical agents and is superficially treated.

TECHNICAL CHARACTERISTICS OF THE FIBRES

• Material:	Virgin polypropylene
• Specific weight:	0,91g/cm ³
• Melting point:	160°C
• Tensile strength:	400-500 N/mm ²
• Break elongation:	>20%
• Colour:	white
• Length:	6 - 12mm nominal
• Section:	circular
• Young modulus:	3500-3900 MPa
• Thickness:	18µm

FIELD OF APPLICATIONS

plastic shrinkage cracking control for concrete, mortar and grout and reduction of explosive spalling and damage in event of a fire

Examples of applications

- Residence floorings
- Industrial floorings
- Parking, airport slabs
- Precasting elements
- Sprayed concrete
- Reduction of explosive spalling in event of a fire (ISO 834)



Figura 1

STANDARD OF REFERENCES

- UNI EN 14845-2:2007 - Test method for fibres in concrete ¼ Part II: effect on concrete:
- EN 14889-2: 2006 - Fibres for concrete-Part II: Polymer fibres-Definition, specifications and conformity;
- CNR ½ DT 204/2006 ½ Istruzioni per la progettazione, l'Esecuzione ed il Controllo di Strutture di Calcestruzzo Fibrorinforzato.
- ISO-834-Fire resistance tests-Elements of building construction

MIXING PROCEDURE

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

STORAGE

Preserve the pallets from atmospheric corrosion

PAKAGING

- 20 biodegradable sacks of 1000 gr each box on an 30 boxes pallet

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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