

FIBROMAC™ FR MONO-FILAMENTARY POLYPROPYLENE MICROFIBRE

PRESENTATION

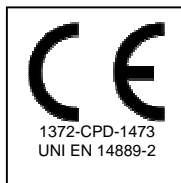
Polypropylene fibres with CE marking, for non structural purposes, in compliance to UNI EN 14889-2.

The FIBROMAC™ FR is a mono-filamentary fibre made of 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 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 resistance to micro-cracking.

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



TECHNICAL THE FIBRES

• Base material:	Virgin polypropylene
• Specific weight:	0.91g/cm ³
• Melting point:	160°C
• Tensile strength:	400 MPa
• Break elongation:	> 20%
• Colour:	white
• Length:	6 mm nominal
• Section:	circular
• Young's modulus:	3700 MPa
• Diameter:	18 microns
• Number of fibres per kg	720,000,000

CHARACTERISTICS OF



Figure 1

PACKAGING

- 20 biodegradable sacks of 1 kg per box on a 30 boxes pallet
- 3 big bags of 160 kg on a pallet

MIXING PROCEDURE

FIBROMAC™ FR polypropylene fibres can be added in the concrete mixer, manually or through the new Maccaferri system for fully automatic dosage: POLYDOSO, directly in the concrete production plant.

FIELDS OF APPLICATION

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

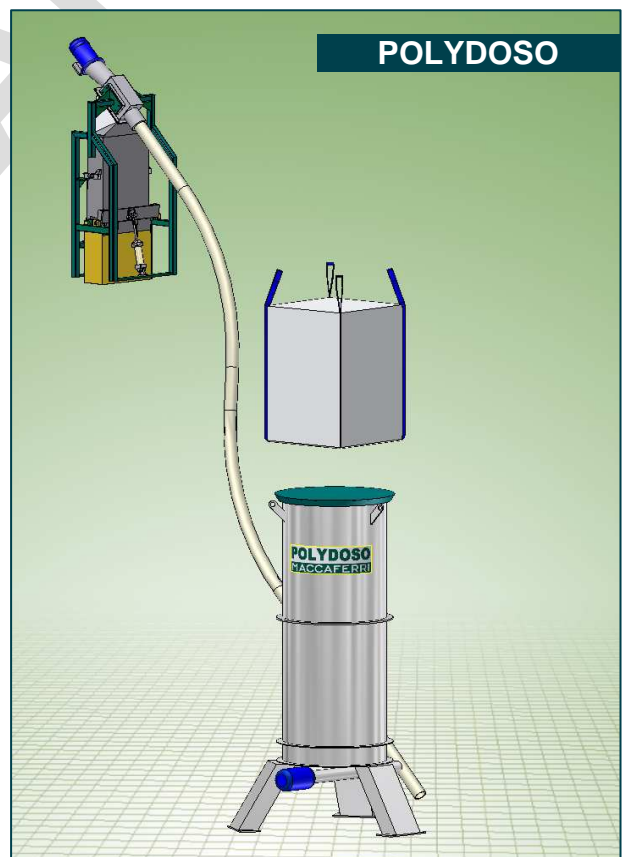
Examples of applications of the FIBROMAC™ FR

- Concrete structures with face at sight
- Industrial and commercial floorings
- Pavements
- Airport taxiways and parking areas
- Precast elements
- Sprayed concrete
- Tunnel linings

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
- ISO-834-Fire resistance tests - Elements of building construction

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-advise. 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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Bureau Veritas Certified Quality System Company
with SINCERT's and UKAS' s accreditation.