

POLYFIBRA

Polymeric Fiber for Structural use

DESCRIZIONE

POLYFIBRA is the polymeric fiber for structural use, made in extruded polyester to straightened and oriented fibers.

Its special shape creates a better surface contact with concrete, without compromising excellent distribution in the concrete mixture.

POLYFIBRA is able to reduce concrete shrinkage cracking as well as improve durability, increasing resistance to traction and to effort, and ductility of concrete.

Applications

- Decorative Concrete;
- Stamped Concrete
- Industrial Flooring;
- Self-Compacting Concrete;



Technical characteristics

Material	Oriented fibers in extruded polyester
Width	1,50 mm
Thickness	0,55 mm
Colour	gray/nature/on demand
Shape	wavy/serrated
Density	1,20 g/mm²
Tensile strength	600-800 MPa
Young elastic module	10,0 KN/mm²
Melting point	245°C
Water absorption	0,05%
Elongation	8%
Resistance to alkaline	excellent

PRODUCT	LENGHT	PACKAGING
POLYFIBRA 30 FRH	30 mm	5kg PE bags - Pallet 500kg

	Prestazioni <i>Performances</i>	Specifica tecnica armonizzata <i>Harmonised technical specification</i>
Gruppo / Group	Macro	EN 14889-2
Materiale / Type of material	Poliestere estruso additivato / Polyester extruded additive	EN 14889-2
Lunghezza / Length [mm]	30	EN 14889-2
Diametro equivalente / Equivalent diameter [mm]	1.02	
Resistenza a trazione <i>Tensile Strenght</i>	600-800 MPa	EN 14889-2
Modulo elastico <i>Young's modul</i>	10000 Mpa	EN 14889-2
Effetto sulla resistenza del calcestruzzo <i>Consequence on resistance of concrete</i>	7 Kg./ m³ per ottenere 1,5 N/ mm² a CMOD = 0,5 mm e 1 N/ mm² a CMOD = 3,5 mm	EN 14651
Consistenza con 7 kg/ m³ di fibre <i>Consistency with 7 kg/ m³ of fibers</i>	Vebe' time: 08 sec.	EN 14889-2
Sostanze pericolose Danger substances	Conforme / Conforms	EN 14889-2
Durabilità <i>Durability</i>	La durabilità dipende dal tipo di calcestruzzo che ingloba le fibre / The durability is dependent on the type of concrete incorporating the fibers	

Legenda: 1 Mpa = 1 N/mm²

Reaction to Fire

Fibers during the fire, reached their melting point, they decompose without produce harmful gases and they avoid spalling.

IMPORTANT:

All information contained in this data-sheet is based on the best practical and laboratory expertise. The customer is responsible for checking the product is suitable for use. The producer does not accept any responsibility arising from wrong applications. We recommend testing the products on small surfaces before use. This data-sheet replaces and annuls the previous ones. Data might be changed anytime. We also remind you that Ideal Work products are for professional use and Ideal Work provides customers with training opportunities upon request. Whoever uses these products without authorisation, shall take full personal responsibility and at their own risk.

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