

Readymesh PF

Monofilament stranded macro-fibre structural for industrial flooring



Readymesh PF is a stranded structural polyolefin macro-fibre, high-performance, specific for the realisation of continuous surfaces made of concrete, it can also be used in replacement of traditional steel reinforcement. The texture, length and surface finishing of Readymesh PF was designed and developed specifically for "exposed" applications, such as industrial floors made of concrete. Readymesh PF are available in two different lengths: Readymesh PF-180 = 18 mm; Readymesh PF-540 = 54 mm

CUSTOMS CODE: 5404 1200

COMPONENTS: Single-component

APPEARANCE: Twisted fibers

AVAILABLE COLORS: White

PACKAGING AND DIMENSIONS: Hydro degradable bag 1 kg - Small bag 5 kg - Pallet: 42 x (Box 10 Kg) - PF-540 Box: 10 x (Hydro degradable bag 1 kg) - PF-180 Box: 7 x (Hydro degradable bag 1 kg)

OBTAINED CERTIFICATIONS AND REGULATIONS



FEATURES AND BENEFITS

The addition of Readymesh PF to the mixture gives the concrete and the resulting manufacture a greater resistance to the forces of traction/bending, reduces the risk of breakage and "spalling" of the concrete component in the corners and edges, drastically reduces the phenomenon of cracks due to shrinkage during the first hours of curing of the concrete. The particular shape and consistency, allows Readymesh PF not to interfere with the process of mechanical floating typical of industrial floors made of concrete, thus allowing a good surface finish. In addition, the use of Readymesh PF instead of the traditional armour of steel is a great saving of costs of material and installation times (in addition to being lighter, environmentally friendly and safe than electrowelded mesh).

FIELDS OF APPLICATION

Industrial flooring, also in replacement of steel mesh. Prefabrication. Widespread three-dimensional high anisotropy reinforcement of concretes in general.

ALLOWED SUPPORTS

Concrete



MODE OF USE

Add the fibres to the concrete during mixing. Mix, with the drum of the mixer truck at full speed, for at least one minute for each m³ of concrete. The dosage, depending on the use, is normally included between 1 to 6 kg/m³ In the case of industrial flooring.

APPLICATION METHODS


To be added to other components

KEY FEATURES

 Density: 0.91 g/cm³

 Unlimited shelf-life

 Nonflammable

 UV-resistant

TECHNICAL SPECIFICATIONS

0.48 mm

Young modulus **5.37 GPa**

Breaking load longitudinal **516.9 MPa**

Auto-ignition temperature **>400 °C**

Resistant to chemical agents

ASTM D 1929
Flash-point **350 °C**

Melting temperature **160 - 170 °C**

Alkali-resistant material

CONSUMPTION

Variable according to the performance to be achieved in the industrial flooring to be built (on average 1 to 2 kg for each cubic metre of concrete).

STORAGE AND CONSERVATION

Store the product in its original packing, in a fresh and dry environment, avoiding frost and direct sunlight. Protect from humidity.

ADDITIONAL CONTENT



Bending test Readymesh PF-540 (RILEM TC 162-TDF)

Dosage of fibres	6.0 Kg/m ³
fCT,L	3.425 MPa
fR,1	2.913 MPa
fR,2	2.660 MPa
fR,3	2.669 MPa
fR,4	2.594 MPa



WARNINGS AND PRECAUTIONS

The general information, along with any instructions and recommendations for use of this product, including in this data sheet and eventually provided verbally or in writing, correspond to the present state of our scientific and practical knowledge. Any technical and performance data reported is the result of laboratory tests conducted in a controlled environment and thus may be subject to modification in relation to the actual conditions of implementation.

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