



Family
Readymesh

Type
Synthetic fibres for concrete

Product Lines
• **Infratech**

Functional Categories
• **Improvement of mechanical and/or rheological performance of newly manufactured mortars, plasters and concretes**
• **Construction of high performance industrial concrete floors**

Components
Single-component

Appearance
Twisted fibres

RDM.0205

READYMESH PF-540

Monofilament stranded macro-fibre structural for industrial flooring

Customs Code

5503 4000

Dosage

1.5 kg /m³

Packaging

- Hydro degradable bag 1 kg
- Box: 10 x (Hydro degradable bag 1 kg)

Application

- To be added to other components

Certifications and legislations



EN 14889-2:2006 (System 1)

Structural fibres for concrete. Polymer fibres. Definitions, specifications and conformity.

General description

READYMESH PF-540 is a stranded structural polyolefin macro-fibre, high-performance, with a length of 54 mm, 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-540 was designed and developed specifically for "exposed" applications, such as industrial floors made of concrete.

General features

The addition of READYMESH PF-540 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-540 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-540 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.

Available colours

- White

Basic features



Density:
0.91 g/cm³



Diameter:
0.48 mm



Length:
54 mm



Nonflammable



Unlimited shelf-life



UV-resistant



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Technical specifications

Auto-ignition temperature: >400 °C

Breaking load longitudinal: 516.9 MPa

Effects on the consistency of fresh concrete (Vebè) Classe: V3 _

Number of filaments: 110000 nr/kg

Young modulus: 5.37 GPa

Applicable on

Concrete

Instructions for 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, it is not recommended for use with doses higher than 3 kg/m³.

Storage and preservation

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



Bending test (RILEM TC 162-TDF)

Dosage of fibres	6.0 Kg/m ³
f _{CT,L}	3.425 MPa
f _{R,1}	2.913 MPa
f _{R,2}	2.660 MPa
f _{R,3}	2.669 MPa
f _{R,4}	2.594 MPa

Warnings, Precautions and Ecology

Technical and performance data outlined in this document are the result of laboratory testing conducted in a conditioned environment, as such they can result as considerably changed from operating and application conditions. The need follows to carry out preliminary tests in actual use conditions.

The user is required to check the product's most recent Material Safety Data Sheet, reporting physical-chemical and toxicological data, risk phrases and other useful information on how to safely transport, use and dispose of the product and its packaging. It is also reminded that the product and its packaging must not be dispersed in the environment for any reason.

During the construction of industrial flooring, and in particular for the drafting and smoothing of concrete with power trowel, keep in mind that the speed of hardening of the reinforced concrete may be slightly accelerated.



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READYMESH PF-540 is produced/distributed by



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