



RDM.0205

## READYMESH PF-540

Monofilament stranded macro-fibre structural for industrial flooring

### Customs Code

5404 1200

### Packaging

- Hydro degradable bag 1 kg
- Box: 10 x (Hydro degradable bag 1 kg)
- Pallet: 42 x (Box 10 Kg)

### Application

- To be added to other components

Family  
**Readymesh**

Product Lines  
• Infratech  
• Floor

Components  
**Single-component**

Type  
**Synthetic fibres for concrete**

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

Appearance  
**Twisted fibres**

## 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).


## Dosage


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).


## Fields of application

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

## Basic features

 Density:  
0.91 g/cm<sup>3</sup>


 Diameter:  
0.48 mm

 Length:  
54 mm

 Nonflammable

 Unlimited shelf-life

 UV-resistant

 Available colours  
White

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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 \_

Melting temperature: 130 °C

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 m<sup>3</sup> of concrete. The dosage, depending on the use, is normally included between 1 to 6 kg/m<sup>3</sup>. In the case of industrial flooring, it is not recommended for use with doses higher than 3 kg/m<sup>3</sup>.

## 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 <sup>3</sup>
f <sub>CT,L</sub>	3.425 MPa
f <sub>R,1</sub>	2.913 MPa
f <sub>R,2</sub>	2.660 MPa
f <sub>R,3</sub>	2.669 MPa
f <sub>R,4</sub>	2.594 MPa



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## Warnings, Precautions and Ecology

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.

Azichem Srl does not assume any liability arising from inadequate characteristics related to improper use of the product or connected to defects arising from factors or elements unrelated to the quality of the product, including improper storage.

Those wishing to utilise the product are required to determine prior to use whether or not the same is suitable for the intended use, assuming all consequent responsibility.

The technical and characteristic details contained in this data sheet shall be updated periodically. For consultation in real time, please visit the website: [www.azichem.com](http://www.azichem.com). The date of revision is indicated in the space to the side. The current edition cancels out and replaces any previous version.

Please note that the user is required to read the latest Safety Data Sheet for this product, containing chemical-physical and toxicological data, risk phrases and other information regarding the safe transport, use and disposal of the product and its packaging. For consultation, please visit: [www.azichem.com](http://www.azichem.com).

It is forbidden to dispose of the product and/or packaging in the environment.

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.

*READYMESHPPF-540 is produced/distributed by*



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