



RDM.0212

READYMESH MF-500

Structural steel fibres for
concrete flooring

Customs Code

7326 2000

Packaging

- Bag 20 kg
- Pallet: 50 x (Bag 20 kg)

Application

- To be added to other
components

Family
Readymesh

Product Lines

- Infratech
- Floor

Components
Single-component

Type
Steel 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**
- **Prefabrication**

Appearance
Fibers

Certifications and legislations



EN 14889-1:2006 (System 1)

Fibres for concrete - Steel fibres - Definitions, specification and conformity

General description

"Carbon steel fibres, obtained by the cutting of metal wire, with improved adhesion profile, for three-dimensional general structural reinforcement of cement-based conglomerates. The addition of READYMESH MF-500 significantly increases the mechanical performance of the structure in terms of toughness, ductility, fatigue, dynamic stress, shock, wear, tensile and shear strength and even post-cracking and damage behaviour."

Dosage

Variable according to the type of work to be carried out and/or performance to be achieved.

Fields of application

General preparation of fibre-reinforced concrete and structural sprayed concrete (e.g. shotcrete). Particularly suitable for high strength industrial flooring and prefabrication.

Basic features



Highlighted product



Density:
7.8 kg/dm³



Diameter:
~1.05 mm



Hooked geometry



Length:
50 mm



Unlimited shelf-life



Use wearing protective gloves



UV-resistant



Available colours
Steel

Technical specifications

Aspect ratio (l / d): 50 _

Breaking load longitudinal: 1100-1400 N/mm²

Effective length: 52 mm

Effects on the consistency of fresh concrete (Vebè) 25 kg/m³: 9 s

Linear development: 3770 m/m³

Nominal length: 50 mm

Non-toxic material

Number of filaments: ~2900 nr/kg

Static elastic modulus: 210000 N/mm²

IF YOU WANT TO SOLVE IT
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Updated: 16/02/2021

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Applicable on

Concrete, Prefabricated concrete

Instructions for use

"READYMESH MF-500 fibres must be added to the concrete during mixing. It is recommended to pour the fibres directly onto the loading belt of the concrete mixer during the loading of the aggregates. Alternatively, it is possible to add them directly into the mixer after loading the concrete. In this case, add the fibres a little at a time so that they are well-distributed in the cement mix and extend the mixing time by at least one minute for every 20 kg of fibres added in order to achieve optimal distribution.

Conglomerates with READYMESH MF-500 can be easily transported and used with pumps, joiners, vibratory finishing machines, roadway extruders (e.g. slipform paver), etc."

Storage and preservation

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



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. 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.

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

Improper addition of the fibres to the cement mix may cause substantial alterations to the mechanical performance of the concrete itself.



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READYMESH MF-500 is produced/distributed by



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