

Readymesh MF-500

Structural steel fibres for concrete flooring



"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."

CUSTOMS CODE: 7326 2000

COMPONENTS: Single-component

APPEARANCE: Fibers

AVAILABLE COLORS: Steel

PACKAGING AND DIMENSIONS: Bag 20 kg - Pallet: 50 x (Bag 20 kg)

OBTAINED CERTIFICATIONS AND REGULATIONS



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.

ALLOWED SUPPORTS

Concrete - Prefabricated concrete

MODE OF 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."





APPLICATION METHODS

To be added to other components



KEY FEATURES

-  Density: 7.8 kg/dm³
-  Highlighted product
-  Length: 50 mm
-  Use wearing protective gloves

-  Diameter: ~1.05 mm
-  Hooked geometry
-  Unlimited shelf-life
-  UV-resistant

TECHNICAL SPECIFICATIONS

Linear development **3770 m/m³**

Nominal length **50 mm**

Effective length **52 mm**

Aspect ratio (l / d) **50**

25 kg/m³

Effects on the consistency of fresh concrete (Vebè) **9 s**

Static elastic modulus **210000 N/mm²**

Number of filaments **~2900 nr/kg**

Breaking load longitudinal **1100-1400 N/mm²**

Non-toxic material

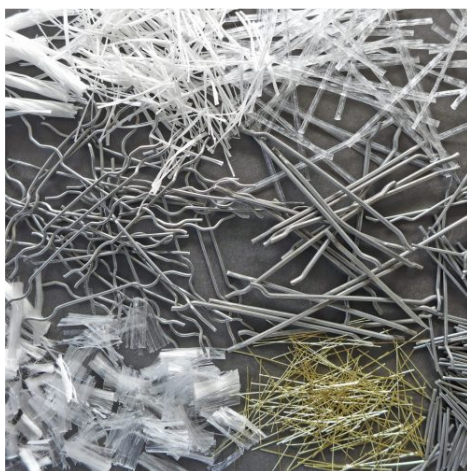
CONSUMPTION

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

STORAGE AND CONSERVATION

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.

PHOTO GALLERY



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ADDITIONAL CONTENT



WARNINGS AND PRECAUTIONS

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

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