

MAPEFIBRE STEEL 50X0.75 M

Steel fibres for concrete reinforcement

WHERE TO USE

Mapefibre Steel 50X0.75 M are end-hooked steel fibers particularly used for fibre-reinforced industrial floors. **Mapefibre Steel 50X0.75 M** are a valid alternative in substitution of conventional steel reinforcements, such as steel mesh.

Mapefibre Steel 50X0.75 M are used in different sectors in the civil and industrial field.

Some application examples

- Fibre-reinforced industrial flooring
- Concrete structural elements for foundations, bases, floor slabs and screeds in residential environments
- Port and airport concrete slabs
- Precast concrete panels, reinforced concrete pipes and high-performance concrete elements
- Infrastructures and primary linings in tunnels

TECHNICAL CHARACTERISTICS

Mapefibre Steel 50X0.75 M are made from 50 mm-long steel structural fibres with an omega-shaped profile, designed to improve the performance characteristics of conventional and precast concrete and shotcrete.

Mapefibre Steel 50X0.75 M are used to obtain concrete with high ductility and to limit cracking phenomena.

ADVANTAGES

- 3D structural reinforcements
- improved behaviour of the material during the post-cracking phase
- higher ductility of the concrete
- improved impact resistance
- easier and quicker application compared to conventional steel reinforcement

HOW TO USE

Mapefibre Steel 50X0.75 M can be added to the concrete directly in the mixer of the batching plant or in the beton truck, when the concrete has already been prepared.

For correct homogenisation of the fibres in the concrete mix, we recommend the use of suitable spreaders and mixing times appropriate to the type of concrete specified.

CONSUMPTION

Mapefibre Steel 50X0.75 M may be added to concrete with dosages between 15 and 40 kg/m³, depending on the project and the performance required. Mapei CFS Team is available to provide technical support and structural calculations to determine the correct dosage.

STORAGE

Mapefibre Steel 50X0.75 M are supplied in 20 kg non-waterproof paper bags, in 1000 kg pallets.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Mapefibre Steel 50X0.75 M is an article and referring to the current European regulations (Reg. 1906/2007/CE - REACH) does not require the preparation of the Safety Data Sheet. During use it is recommended wearing gloves and goggles and following the safety requirements of the workplace.
PRODUCT FOR PROFESSIONAL USE

TECHNICAL DATA (typical values)

PRODUCT IDENTITY

Type of product:	steel fibres for concrete 50x0.75m
Reference standard:	EN 14889-2:2006
Diameter of wire (d):	0.75 mm
Length (L):	50 mm
L/d ratio:	66.66
Shape:	hooked fibre - omega
Tensile strength (N/mm ²):	1 230 N/mm ²
Modulus of elasticity (N/mm ²):	190 000 N/mm ²

WARNING

Although the technical details and recommendations contained in this product data sheet correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical application; for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application. In every case, the user alone is fully responsible for any consequences deriving from the use of the product.

Please refer to the current version of the Technical Data Sheet, available from our website www.mapei.com

LEGAL NOTICE

The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement or replace requirements per the TDS in force at the time of the MAPEI product installation.

The most up-to-date TDS can be downloaded from our website www.mapei.com.

ANY ALTERATION TO THE WORDING OR REQUIREMENTS CONTAINED OR DERIVED FROM THIS TDS EXCLUDES THE RESPONSIBILITY OF MAPEI.

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