Ha-Be
Making good concrete better

Ha-Be PP-Makrofaser T

Item No 4520

Synthetic macrofibre acc. to EN 14889-2 for optimising the load carrying performance of concrete

FIELDS OF APPLICATION

Ha-Be PP-Makrofaser T is a shrunken macrofibre for synthetic reinforcement of concrete and screed. It optimizes the mechanical load-bearing capacity of the concrete and minimizes the formation of shrinkage cracks.

Since Ha-Be PP-Makrofaser T does not form corrosion, the life of concrete is significantly extended, even in maritime environments.

Additionally, Ha-Be PP-Makrofaser T improves fire-resisting properties of concrete.

Ha-Be PP-Makrofaser T is used in the following applications:

- Precast concrete
- Top concrete layer
- Infrastructure constructions
- Foundations and monolithic floor panels
- Screed

Ha-Be PP-Makrofaser T is compatible with all types of cement, fillers and concrete admixtures. The fibre protects mixing and application tools against wear.

DOSAGE

Recommended dosage: 1.0 – 10 kg/m³.

Synthetic fibres may affect the consistence and air void content of unset concrete. Before using the fibre suitability tests are required.

WORKING PRINCIPLE

Ha-Be PP-Makrofaser T disperses excellently and can be easily distributed in three dimensions.
Optimising the static properties of concrete, Ha-Be PP-Makrofaser T improves the impact resistance, the ultimate flexural strength, and the ductility of concrete.

The high fibre frequency in concrete spreads the tension homogeneously and prevents the formation of shrinkage stress and cracks in the hardened concrete.

TECHNICAL DATA

Material	polypropylene
Colour	transparent
Available length	24 mm 36 mm 48 mm
Density	approx. 905 kg/m³
Diameter	0,700 mm
Form	monofil
Tensile strength	600 N/mm²
Elastic modulus	5000 N/mm²
Melting point	approx. 160 °C
Storage conditions	Store dry. Protect from moisture!

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PROCESSING INDICATIONS

Ha-Be PP-Makrofaser T is either added into the dry batch or into the wet concrete mixture.

Addition to the dry batch

Insert fibres as first component and add 1/3 of the required tempering water. Afterwards the aggregates and cement should be adjoined.

Addition to the wet mixture

Insert fibres as last component.

The mixing time must comply with the regulations defined in EN 206-1.

PACKAGING

Filling weight per box 12 kg

REMARKS

This information describes the application- and processing possibilities of a product and its operation principles under regular conditions. Having no influence on the further application and processing, especially in conjunction with other construction materials, the given indication is neither a warranty in respect of the product's properties or its fitness for a particular purpose nor a full instruction of use. This information, any other recommendation or verbal advice are not binding and do not infer to any liability or legal demand.

Due to continuous further development, the most recent Technical Data Sheet is valid and will be supplied on request. All orders are accepted subject to our current general terms and conditions.

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SUITABILITY- AND PRE-TESTS ARE NECESSARY BEFORE APPLYING THE CONCRETE ADMIXTURE!

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