

Ha-Be PP-Makrofaser

Item No 4510/E

Monofilament fibres for optimising the load carrying performance of concrete

FIELDS OF APPLICATION

Ha-Be PP-Makrofaser is a synthetic fibre designed for optimising the load carrying performance of concrete and screed.

Having no rusting effects Ha-Be PP-Makrofaser breeds a long-term durability especially in corrosive environments.

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

Applications include, but are not limited to:

- Precast concrete
- Top concrete layer
- Mortar
- Infrastructure constructions
- Parking areas
- Foundations and monolithic floor panels

Ha-Be PP-Makrofaser 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.

Monofilament 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 can be mixed easily and homogeneously with concrete. The low-weight fibre can be distributed easily in three dimensions.

Optimising the static properties of concrete, Ha-Be PP-Makrofaser improves the impact resistance, the ultimate flexural strength and the ductility of concrete. The high fibre frequency in concrete spreads the tension homogeneously and ensures prevention of shrinkage and stress cracks.

TECHNICAL DATA

Material	polypropylene
Colour	white
Length	24 mm 36 mm 48 mm
Bulk density	approx. 1010 kg/m ³
Diameter	700 µm
Form	monofil
Tensile strength	≤ 396 N/mm ²
Elastic modulus	≤ 5.650 N/mm ²
Melting point	approx. 160 °C
Storage conditions	Store dry. Protect from moisture!

PROCESSING INDICATIONS

Ha-Be PP-Makrofaser 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

Big Bags | Special sizes upon request

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 are 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 accepted orders are subject to our current general terms and conditions.

The management system of Ha-Be Egypt is certified to ISO 9001:2015.



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