

ISOTEC PP Makro Fiber®

ISOTEC

Concrete Reinforcing Fiber

FEATURES

ISOTEC PP-Makro Fiber® is a shrunken macro fibre for synthetic reinforcement of concrete & screed. It optimizes the mechanical load-bearing capacity of the concrete and minimizes the formation of shrink-age cracks. Since **ISOTEC PP Makro Fiber®** does not form corrosion, the life of concrete is significantly extended, even in maritime environments. Additionally, **ISOTEC PP Makro Fiber®** improves fire resisting properties of concrete.

APPLICATION

ISOTEC PP Makro Fiber® is compatible with all types of cement, fillers and concrete admixtures. The fibre protects mixing and application tools against wear.

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

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

ISOTEC PP Makro Fiber® disperses excellently and can be easily distributed in three dimensions.

Optimising the static properties of concrete, **ISOTEC PP Makro Fiber®** improves the impact resistance, the ultimate flexural strength and the ductility of concrete.

PRODUCT DATA

Properties	Value
Material	Polyolefin %100
Specific gravity	0.91 g/cm ³
Diameter	0.700 mm
Length	48 mm
Design	Monofilament
Tensile strength	< 600 N/mm ²
Modulus of elasticity	< 5.000 N/mm ²
Melting point	°160C
Colour	Natural
Resistance to acid	Excellent
Resistance to alkaline	Excellent

PROCESSING INDICATIONS

ISOTEC PP-Makro Fiber® 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 13% 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.

PACKAGE

Standard pack: 15 --25kg / carton box (customized)

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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.

Legal Notes

The information provided in this data sheet, are given in good faith based on our current knowledge and experience of the product when properly stored, and applied by professional applicator, and under normal conditions in accordance with the mentioned recommendations. In practice under actual site condition differences are such that no warranty can be issued nor any liability can be taken, arising out of any legal relationship whatsoever. The product must be tested onsite to check its suitability for the intended application and purpose



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