

PP-FASER

Item No 4505

Polypropylene fibre for reducing concrete's shrinkage cracks

Fields of Application

PP-FASER is a synthetic fibre designed for reducing the crack formation in concrete and mortar through improving its resistance to plastic shrinkage cracking.

Application range

- foundations
- internal and external slabs
- basement wallings
- pavements
- precast concrete elements
- shotcrete
- concrete, mortar and plastering

Dosage

Recommended dosage

- for concrete 0,7 - 0,9 kg/m³
- for mortar approx. 0,3 kg/m³

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

Working Principle

Having good dispersing properties PP-FASER can be distributed easily and homogeneously in three dimensions

The degree of fibre finesse and its frequency of occurrence in concrete attains and homogeneous stress spread in concrete and minimizes shrinkage and stress cracks significantly.

PP-FASER improves concrete's fire resisting properties, optimizes its freeze-thawing resistance, minimizes water penetration into the hardened concrete and increases its flexural and tensile strength.

The low-weight fibre shows a good tear resistance, is chemically neutral to cements, admixtures and fillers. PP-FASER provides protection against wear at mixing and processing tools.

Technical Data

Substance	polypropylene
Colour	white
Length	3, 6, 12 and 18 mm
Diameter	32 µm (7.2 dtex)
Form	uncreased
Specific surface	~ 225 m ² /kg
Density	0.91 g/cm ³
Tensile strength	~ 550 MPa
Elastic modulus	~ 4150 N/mm ²
Frequency of occurrence	~ 200 Mio/kg
Storage	Store dry. Protect from moisture!

Processing Hints

PP-FASER is delivered in self-dissolving bags. They are easily to dosage in pan and truck mixers. The fibres are either added before or after addition of the tempering water.

In pan mixers the mixing time should be at least 30 seconds per cubic metre concrete.

In truck mixers the mixing time should be one minute per cubic metre concrete, but not less than five minutes.

The fibre is not an harmful substance according to the EC directives, regulations on harmful substances, and forwarding instructions. Generally accepted safety precautions must be taken when handling chemicals. The corresponding EC safety data sheet is available upon request.

Type of Delivery

600 g, 700 g and 900 g in self-dissolving bags
approx. 25 kg in cartons
approx. 600 kg on pallet
special sizes upon request

Remarks

The products we produce and process are subject to a stringent factory control.

Due to steady improvements on our products and numerous fields of application our details of information are not binding. Any liability thereof cannot be accepted.

In the case of application problems we are pleased to offer our help.

SUITABILITY TESTS ARE REQUIRED BEFORE USING THE FIBRE