

## Concrete Reinforcing Fiber

# AddChem PP-MakroFiber®



### Description

**AddChem PP-MakroFiber®** 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 **AddChem PP-MakroFiber®** does not form corrosion, the life of concrete is significantly extended, even in maritime environments.

Additionally, **AddChem PP-MakroFiber®** improves fire resisting properties of concrete.

### USES

**AddChem PP-MakroFiber®** 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/m<sup>3</sup>.  
Synthetic fibres may affect the consistence and air void content of unset concrete. Before using the fibre suitability tests are required.

### Technical Properties

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

### Packaging

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

### Working Principle

**AddChem PP-MakroFiber®** disperses excellently and can be easily distributed in three dimensions.

Optimising the static properties of concrete, ISOTEC PP-Makrofiber improves the impact Resistance, the ultimate flexural strength and the Ductility of concrete.

### Processing Indications

**AddChem PP-MakroFiber®** 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.

### 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.

### Technical support

For any technical support, please contact IChem technical office or representatives

