



StorCem Micro-180 Concrete Fibre Technology

Product description

StorCem Micro-180 are micro fibre made of pure polypropylene, which are characterised by outstanding physical, mechanical and chemical characteristics. The special surface treatment lends the following characteristics to this micro fibre:

- **User friendly and safer to use**
- **Homogenous distribution**
- **High adhesion to cement**

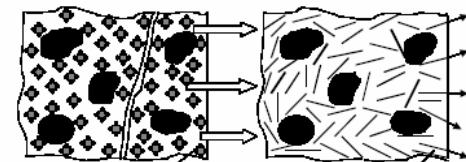
Advantages

StorCem Micro-180 contributes substantially to the improvement of the characteristics of concrete, mortar and gypsum:

- Reduction of shrinkage cracks
- Increase of the frost resistance
- Increase of the bending resistance
- Improvement of the compressive strength
- Increase of the water tightness
- No spalling cause by corrosion as steel fibre reinforced concrete
- Replacement for shrinking armouring
- Improvement of the abrasion resistance

Beyond that

Increases micro fibre as can be proven the fire stability of concrete. The addition of micro fibres can reliably prevent a spalling of concrete also under the extreme conditions of a fire in the tunnel. Very essential for the effectiveness of the fibres is its homogenous distribution in the concrete, this is ensured by **StorCem Micro-180** special surface treatment



Micro fiber melt at 160 °C, the melt prevents the spalling of concrete as a results of the reduction of the water vapour pressure

Application

StorCem Micro-180 is the component of modern civil engineering and its application is very various

- Industrial floor
- Precast Elements
- concrete walls, concrete pavements
- Fireproof concrete using in tunnel construction
- Screed and Plaster
- Products of gypsum
- Pipe construction



StorCem Micro-180: best and secured quality is the focus of attention

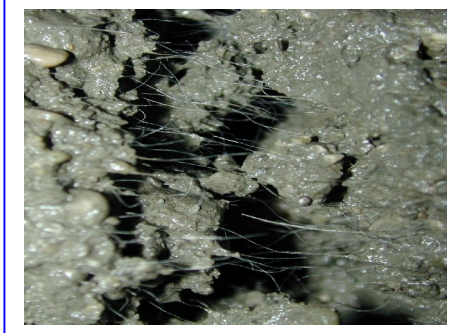
Technical Specification

Resin	Polypropylene
Specific Density	Ca. 0,9 kg/m ³
Morphology	Multifilament
Tensile Strength	400 N/mm ²
E-Modulus	4000 N/mm ²
Melting Point	160 °C
Chemical stability	high
Length	19 mm
Bonding with cement	good



Test certificates

Officially examined quality and regular quality controls during production assure consistency in characteristics



The interconnected net of micro fibre improve the elasticity of concrete and avoid shrinkage cracks

Dosage and processing

Qualification tests are to be accomplished before applying of the **StorCem Micro-180**, the following information are to be regarded only as recommendations.

StorCem Micro-180 are supplied in fully degradable concrete friendly 800 g bags and can be added directly into the concrete at any stage of batching process.

StorCem Micro-180 should be dispersed into the concrete in a agitator and mixed for about 5 minutes in order to get a uniform mixture.

Depending upon application a minimum dosage of 800 g/m³ is recommended by concrete or mortar.

For shotcrete a dosage of 1,6 - 5 kg/m³ is recommended.



Industrial Floor

Compatibility

StorCem Micro-180 are compatible with all standard additives and can be processed without any problems.

Packaging

StorCem Micro-180 are available in the following units:

- 150 g, for do it yourself Markets
- 800 g
- 5 kg
- 25 kg
- 250 kg Big Bag
- Larger quantities when desired



Superior quality by using the modern production technology

Storage

Store protected from the weather

Safety

The product is according to our knowledge and existing database a non-hazard product in terms of Chemical Act

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