



TECHNICAL INFO

SMART FIBER

Polymeric fibres for controlling the shrinkage and reinforcing the screed

CHARACTERISTICS:

SMART FIBER are fibres made of polypropylene with high density. They are suitable for the use in cementitious mixes as they are alkali-resistant and have a good adherence to the hydraulic binders and an excellent dimensional stability.

SMART FIBER makes in the screed mix a micro reinforcement that controls the shrinkage in the plastic phase: in this way, the occurrence of cracks is avoided and, at the same time, the mechanical performances of the screed, in particular the flexural strength, are dramatically improved.

USE:

SMART FIBER is delivered in coils of multifilament rope. The coils are loaded in the fibres dosing system developed by K.G. Bontira. Here the rope is unrolled, cut in the use length (18 mm) and added to the screed mix.



PHYSICAL CHARACTERISTICS

Filament diameter 0,10 – 0,22 mm

Density: 0,90 g/cm³

Colour: gray

Melting point: 230°C

Tensile strength: 600 MPa

Elastic modulus Young: 3800 MPa

Max. elongation: 10%

Water adsorption: 0,01 – 0,02%



DOSAGE:

The quantity of **SMART FIBER** is determined to ensure a continuous reinforcement inside the cement matrix. The dosage goes from 1 kg/m³ to 10 kg/m³.

PACKAGE AND STORAGE

The **SMART FIBER** coil are packed on pallets. The pallets should not be stacked one above the other. **SMART FIBER** can be stored outdoor, since it does not corrode.