

DATASHEET

Fibrofor[®] MULTI



Product description

Multi is a multifilament fiber for improving the characteristics of construction elements made of concrete, mortar and gypsum. The fiber will ensure uniform and fast three-dimensional distribution throughout the matrix.

Multi efficiently reduces shrinkage cracking in the early setting phase and in most cases replaces the structural steel inserts in this area.

Multi prevents sedimentation – the subsequent settlement of the matrix.

Multi creates a high level of resistance of concrete structures exposed to aggressive waters.

Application

Multi can be used wherever the purpose is to control plastic shrinkage and to distribute secondary bending stresses.

Multi is employed in the production of floor slabs, prefabricated elements, sub-floorings, stucco works, shotcrete and in products made of plaster.

Multi meets all the criteria and specifications expected of a pure, multifilament polyolefine fibre used as plastic shrinkage reinforcements.

Dosage

The recommended addition rate for screeds is min. 0.6 kg/m³ to max. 0.9 kg/m³. For concrete structures, the standard addition rate is 0.9 kg/m³. For shotcrete and other special applications, individual addition rates are suggested.

For increased fire resistance, an addition rate of 2 kg/m³ is generally recommended.

Multi is available in standard lengths of 6 mm (type 63) and 12 mm (type 127).

Physical properties

Material	pure polyolefins
Form	multifilament
Bulk density	0,91
Lengths	standard, toleranz +/- 5%
Colour	pure white
Resistance to acids/alkalis	inert
Tensile strength	≈ 270 N/mm ²
Softening point	≈ 160° C
Diameter	≈ 32 µm

Processing

The addition of Multi for dry mixing in concrete production facilities does not require any extension of the mixing time. The selected mixing times of the individual concrete formulations can be retained. Special mixtures for special products may require an extension of the mixing time.

Multi can also be added directly to mobile concrete mixers. The rule here is: Per m³ of matrix, 1 minute mixing time at maximum rpm of the mixing drum.

Its addition in screed mixers (pump) does not pose any problem, either. The mixing times may rise slightly, but as a rule, Multi fibres will be optimally distributed with normal mixing times. (Here it is advisable not to add the packing into the screed mixer.)

Multi can be readily processed with any additives known to us.

Caution: The addition of Multi will increase the rigidity of the concrete! Optimise the desired placement consistency using concrete plasticiser! Do not add any additional water!

Packaging

Bags	900 g
Boxes	20 bags of 900 g = 18 kg
Pallets	25 boxes = 450 kg

Warranty

Multi fulfils the standard EN 14889-2 and therefore guarantees a consistently high quality.

Contec Fiber AG does not have any control over production processes using Multi. Therefore, Contec Fiber AG declines any liability for the associated end products.

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