

/ Description

Polypropylene fibers agglomerated into flocks by a special water soluble sizing. They have a high specific surface and are specially designed to prevent or reduce the risk of plastic shrinkage cracking of concrete.



/ Fields of application

Micro fibers are used in all the concrete works where problems due to plastic shrinkage and/or inadequate curing may cause severe damage such as concrete floors, slabs, tanks, exposed surfaces, etc.

Micro fibers have several other properties that make them especially suitable in cement matrices:

- high chemical resistance in alkaline environment;
- no degradation due to the presence of molds, fungi, etc.

The distribution of the fibers inside the matrix occurs in the initial phase of mixing the flakes are dispersed uniformly in the cement matrix. Then the mix water dissolves the water soluble glue and the fibers are separated from the flakes and uniformly dispersed.

/ Technical features

Technical Information	
Fiber class	Ia
Water adsorption	Null
Alcaly Resistance	High
Melting point (°C)	150-170

Essential characteristic in accordance to EN 14889-2	Performance
Type of polymer	Polypropylene
Colour	White
Density [kg/m ³]	910
Linear density [dtex]	6.6
Longitudinal shape	straight
Section shape	circular
Diameter [mm]	0.034
Length [mm]	18
Length / Diameter Ratio	529.4
Toughnesses index (N/mm ²)	>300
Toughness [cN/dtex]	31.9
Effect on the consistency of the concrete [fiber dosage in kg / m ³ , Vebe time in s with fibers]	0.6 10.0

/ Dosage

The advised dosage for fibers is a bag of 0.6 Kg per m³ of concrete.

/ Packaging and storage

Micro fibers are packaged in 0.6 kg water soluble bags in boxes of 18 kg.

We advise to store the fibers in a dry place and in closed boxes. The shelf life is 48 months, if stored in original packaging between +5 °C and +30 °C protected from humidity and direct sun light.

/ Directions for use

Micro fibers are added either to the dry components and mixed or added to the already mixed paste in the mixer just before starting the pouring operation. In both cases, a few minutes' mixing is enough to obtain a good dispersion of the fibers.

Micro fibers must never be added to mix water alone before introducing the other components.

/ Certificazioni

In compliance with the European Regulation (EU No 305/2011 and EU No. 574/2014) the product is provided with the CE marking according to UNI EN 14889-2 and the relative DoP (Declaration of Performance).