



POLYPROPYLENE FIBER



Polypropylene fiber for increasing the quality of mineral building materials with building authority approval.

Properties

Our POLYPROPYLENE FIBER consists of 100% pure polypropylene and is therefore physiologically harmless. It is manufactured according to the quality standards of ISO 9001 and has a general building authority approval Z-3.73-1878.

Our POLYPROPYLENE FIBER is resistant to acids and alkalis. Pure polypropylene is inert, i.e., non-reactive. The setting behavior of the concrete is not affected.

Areas of application

Our POLYPROPYLENE FIBERS can be added to all mineral-bound building materials, e.g. precast concrete parts, screeds, mortars, to improve their quality. The addition prevents shrinkage cracks and segregation and achieves higher flexural and compressive strengths. In addition, an overall uniformly high product quality is achieved.

Processing/Dosage

Per m³ of concrete, only 1 kg of POLYPROPYLENE FIBERS is required. It is added to the dry mixture.
Fiber lengths: 18 mm, 12 mm, 6 mm

Product properties

Fiber type			506	512	518
Property	Unit	Method	Guide values		
Fineness of fiber	dTex	DIN 53812	2,8	2,8	2,8
Fiber diameter	µm		19,8	19,8	19,8
Fiber length	mm		6	12	18
Moisture content	%		0,4	0,4	0,4
Strength	N/mm ²	DIN EN ISO 5079	282	282	282
E-modulus	N/mm ²	DIN EN ISO 5079	1000	1000	1000
Elongation at break	%	DIN EN ISO 5079	140	140	140
Melting point	°C		160-170	160-170	160-170
Bulk density	g/cm ³		0,91	0,91	0,91

Further product advantages

- chemically neutral to all cements and admixtures
- good adhesion in the concrete matrix
- easy mixing
- no wear of the mixing tools
- non-toxic and environmentally neutral
- increases the frost and de-icing salt resistance
- increases the water retention capacity of the concrete
- increases the flexural strength

Packing

on request

Storage, shelf life

POLYPROPYLENE FIBERS should be stored in a dry place. With proper storage, shelf life is possible for years.