



Fibtwist® FT

Polypropylene-Based Macro Synthetic Fiber Reinforcement Specially Developed For Site Concrete Applications

Fibtwist® FT is a structural macro synthetic fiber reinforcement made of 100% copolymer/polypropylene, consisting of twisted monofilament fiber bundles. It is specifically engineered for concrete slab-on-ground applications where heavy load traffic is not intense, offering a more practical, economical, and environmentally friendly alternative to traditional steel mesh or wire reinforcement. Thanks to its unique twisted structure, Fibtwist® FT provides long-term maximum durability without the risk of corrosion. It effectively minimizes plastic shrinkage and settlement cracks in concrete. Fibtwist® FT eliminates the need for conventional steel mesh and steel fiber reinforcements, offering a corrosion-resistant, non-magnetic, and 100% alkali- and acid-resistant solution. Due to its soft texture, Fibtwist® FT becomes fully embedded into the concrete surface during finishing and does not protrude. It also reduces labor and the number of troweling passes required

Applications

- Industrial floors & Slabs on grade
- Pedestrian walkways
- Concrete roads
- Topping screed applications (terraces, decks, subflooring for ceramics and pools etc.)
- Car Park Areas



Usage Instructions and Mixing

A homogeneous mix is achieved by adding Fibtwist® FT either onto the aggregate belt at the concrete batching plant or by mixing it at high speed in a concrete truck on-site for a minimum of 5 minutes. The use of high-range water-reducing admixtures is recommended, especially at higher dosages.

Slab Thickness (cm)	Fibtwist® FT54	Fibtwist® FT36
5-12 cm		●
12-15 cm	●	●
>15 cm	●	

Packaging Types

- 3 and 5 kg recycled PE pack.
- Custom packaging available if requested.

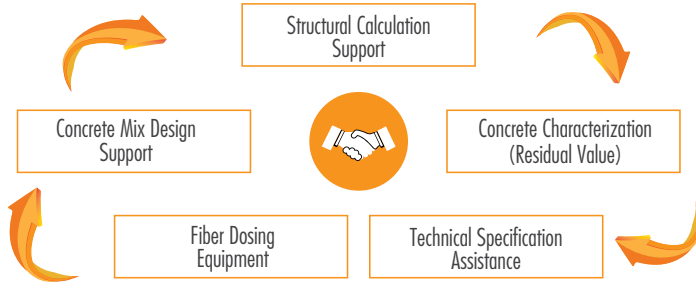
Dosing

The dosage of Fibtwist® FT typically ranges between 2 kg/m³ and 3 kg/m³, depending on the required engineering properties of the fiber-reinforced concrete. The maximum dosage is 4.0 kg/m³. Fibtwist® FT macro synthetic fibers can be used as a replacement for steel mesh and steel fibers in concrete, provided that appropriate project calculations have been carried out.

If the fiber dosage used differs from the values stated in the Technical Data Sheet (TDS) and/or is not based on a structural report provided by Polyfibers, it is expressly declared that full responsibility lies with the customer. In such cases, Polyfibers assumes no liability or warranty regarding product performance.



Full Solution



Storage & Disposal

- It is recommended to store fibers within original packages, between +5°C and 30°C, protected from moisture and direct sunlight.
- Should not be stored near flammable or oxidizing materials.
- Should not be stacked unless proper precautions are taken.
- It is the responsibility of the end user to dispose the product and the package.

Typical Properties - Fibtwist® FT

Composition	100% virgin polypropylene copolymer
Type	Macro synthetic fiber reinforcement for structural use
Geometric Shape	Twisted bundle
Standards & Certifications	EN 14889-2 Type II, ASTM C1116 Type III, ASTM D7508
Available Lengths	Standard 54 mm- 36 mm Different lengths are available depending on the project requirements.
Diameter	0.7 mm
Color	Black or Gray
Specific Weight	0.91 gr / cm ³
Elastic Modulus	6.0 – 6.50 GPa
Tensile Strength	350 - 400 MPa
Number of Fibers	100000+ /kg
Corrosion	Non-corrosive
Water Absorption	N/A
Chemical Resistance	Excellent alkali resistance
Cement Compatibility	Excellent
Magnetism	Non-magnetic
Melting Point	165°C
Ignition Point	> 360°C



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