



Applications

- Industrial Floors
- Topping Concrete
- Slab on Grade
- Concrete Roads & Pavements
- Bridge Deck
- Port Concrete Linings
- Piers & Docks
- Hydroelectric Power Plants
- Concrete Blocks
- Precast Segments
- Tunnel Floors
- Tunnel Segment Linings
- Subway Waiting & Walking Areas
- Ground Stabilization & Shotcrete

Polytwist PT54

High Performance Structural Macro Synthetic Fiber Concrete Reinforcement Without Corrosion Risk

Polytwist PT54, made of 100% virgin copolymer / polypropylene, consists of twisted bundles of monofilament fibers, are used for structural concrete reinforcement. Its high performance structure yields maximum durability without corrosion, magnetic or acid / alkali risk. While preventing shrinkage cracks and providing temperature reinforcement, Polytwist fibers provide ductility, high energy absorption and flexural toughness to concrete and eliminate the need for steel mesh and steel fibers.

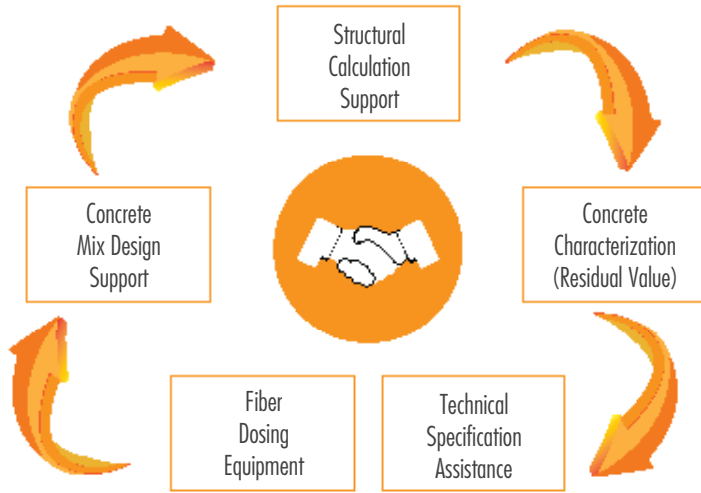
Usage Instructions

Depending on the project requirements, recommended dosages vary between 2 kg/m³ and 5 kg/m³. Homogeneous mixture is obtained by addition of Polytwist® PT54 to the aggregate band at the concrete batching plant or by mixing in a high speed concrete mixer for at least 5 minutes in the field.

Packaging Types

In bulk 4-5 kg / WS bag 500 grams

Full Solution



Composition	100% virgin copolymer / polypropylene
Type	Macro synthetic fiber reinforcement for structural use
Appearance	Twisted bundle
Length	54mm (min tolerance 2%)
Standards & Certifications	EN 14889 Part II Type II, ASTM C1116 Type III, ASTM D7508, ICC AC 308
Equivalent Diameter	0.48 - 0.50mm (min tolerance 5%)
Aspect Ratio	112
Color	Grey
Specific Weight	0.91gr / cm ³
Elastic Modulus	7.2 - 8.5 GPa
Tensile Strength	560 - 650 MPa
Corrosion	Non-corrosive
Water Absorption	N/A
Chemical Resistance	Alkali and acid resistance
Magnetism	Non-magnetic
Melting Point	165°C
Ignition Point	> 360°C



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