LIDSOL

Polypropylene Twisted fibre

is a high-performance alternative to steel fiber, offering superior strength, durability, and resistance to acids and alkalis. Made from polypropylene through a specialized process, it ensures excellent tensile strength, easy dispersion in concrete, and improved workability. Its non-corrosive, lightweight, and flexible nature enhances structure longevity and simplifies handling. Unlike steel fibers, it does not damage mixing equipment, ensuring smooth application.

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POLYPROPYLENE TWISTED FIBRE

Product Advantages

- Polypropylene twisted fiber enhances concrete strength, crack resistance, and durability while being non-corrosive and chemical-resistant, making it a superior alternative to steel fibers.
- Its easy dispersion ensures uniform mixing, improving workability and preventing equipment damage. Lightweight and cost-effective, it extends structure lifespan and reduces maintenance costs.

Applications:

- Industrial flooring works & Grade slabs
- Shotcrete in Tunneling work.
- Flexural Precast Structures.
- PQC (Pavement Quality Concrete)

Key Features :

- Provides higher tensile strength.
- Enhances durability.
- Improves energy absorption.
- Increases load bearing capacity.
- Controls deflection in concrete structures
- Increases flexural strength, toughness & residual strength.
- Replaces steel fibre/nominal steel.
- Improves elasto- plastic behavior of concrete structures.

Technical Specification	
Diameter	0.3~0.5 mm
Density	0.91~0.95 g/cm^3
Length	36/ 54 mm
Tensile Strength	≥580 MPa
Modules OF Elasticity	≥3500 MPa
Melting Point	160- 165°C
Elongation	≥15%

Dosage

- Typical dosage 3 to 9 kg per cubic meter of concrete.
- Higher dosage can be used as per design for specialized applications

Packaging:

Available in 1kg & 5kg bags

Storage

Stored properly in the original, unopened packaging. Protect from sunlight, rain and moisture.

Shelf life:

Three Years from date of production

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