



TECHNICAL DATA SHEET (TDS)

Polypropylene Concrete Fiber

Product Name: Concrete Fiber

Product Type: Polypropylene Concrete Reinforcement Fiber

Supplier: Basekim Company

Product Description

Polypropylene Concrete Fiber is a synthetic reinforcement fiber designed for uniform dispersion throughout concrete and mortar.

It helps control plastic shrinkage cracking and improves the durability, impact resistance and overall performance of concrete.

Typical Properties

Property	Typical Information
Material	Polypropylene
Appearance	Fine synthetic fiber
Colour	White / translucent
Density	Approximately 0.90–0.92 g/cm ³
Fiber Length	Grade / application dependent
Diameter	Grade dependent
Water Absorption	Very low
Water Solubility	Insoluble
Corrosion Resistance	Excellent
Alkali Resistance	Excellent
Acid Resistance	Good
Tensile Strength	Grade dependent

Exact fiber dimensions and mechanical properties must be confirmed for the selected grade.



Main Features

- Controls plastic shrinkage cracking
- Provides three-dimensional reinforcement
- Improves impact and abrasion resistance
- Excellent corrosion resistance
- Lightweight
- Easy to mix into concrete
- Uniform fiber distribution
- Does not rust
- Improves concrete durability

Applications

- Industrial flooring
- Warehouses and factories
- Concrete slabs
- Roads and pavements
- Bridges and tunnels
- Precast concrete
- Concrete pipes and tanks
- Parking structures
- Shotcrete
- Residential and commercial construction

Application

Fibers are added directly to the concrete during batching or mixing.

The correct dosage depends on:

- Concrete mix design
- Fiber length
- Required crack control
- Structural requirements
- Project specification

Dosage should be determined by the concrete designer or fiber manufacturer for each application.



Packaging

Basekim lists typical packaging options as:

Packaging	Typical Weight
Small Bags	20–25 kg
Jumbo Bags	500–1,000 kg
Bulk Delivery	Project dependent

Storage

- Store in a cool and dry area.
- Keep packaging sealed.
- Protect from moisture and contamination.
- Keep away from flames and excessive heat.
- Avoid damaging bags during transportation and storage.

Disclaimer

The information shown represents typical characteristics of polypropylene concrete fiber and is intended for general guidance.

Fiber length, diameter, tensile strength, dosage and other technical properties vary by grade. Final values must be confirmed using the selected product's Technical Specification and Certificate of Analysis.