

PP Fiber

High performance monofilament polypropylene fibers



Description

PP fiber is a micro reinforcement, manufactured of 100% polypropylene fibers, designed for use with all cementitious mixes. The inclusion of PP Fiber within a concrete mix or cementitious mixes will reduce plastic and hardened concrete shrinkage, improve impact strength, and increase fatigue resistance and concrete toughness.

Applications

PP Fiber is ideally designed for use in the following applications:

- ▲ Slab on grade.
- ▲ Stamped concrete.
- ▲ Pre-cast concrete.
- ▲ Water tanks.
- ▲ Pavements.
- ▲ Shotcrete.
- ▲ Renders.
- ▲ Composite decks.

Advantages

- ▲ Controls and inhibits crack formation in concrete.
- ▲ Reduce plastic shrinkage and settlement cracking.
- ▲ Available in variable lengths, 20 mm and 12 mm for concrete and stamped concrete, and 6 mm for plasters and mortars.
- ▲ Compatible with all types of cement and concrete admixtures.
- ▲ Rust free.

Standards

PP Fiber complies with the requirements of ASTM C-1116-1997, Type 3.

Method of Use

Mixing

PP Fiber is added to the mixer before, during or after batching of concrete. Mixing speed and time should be as per ASTM C-94.

Technical Properties:

| | |
|-------------------------|---------------------------------|
| Composition: | Virgin copolymer/ polypropylene |
| Form: | Monofilament fiber |
| Colour: | White |
| Specific gravity: | 0.91 kg/ltr |
| Tensile strength: | 450 - 560 MPa |
| Elastic modulus: | 5100 - 6000 MPa |
| Softening point: | 150°C |
| Melting point: | 165°C |
| Ignition point: | 580°C |
| Diameter: | 35±5 um |
| Chloride content: | Nil |
| Sulphate content: | Nil |
| Alkali content: | Nil |
| Alkali/Acid resistance: | Excellent |

Packaging

PP Fiber is available in 50 mm, 40 mm, 20 mm, 12 mm, and 6 mm fiber length: 0.6 kg or 0.9 kg bags.

Dosage

Dosage of PP Fiber will vary depending on the area of application and the required properties of concrete mixes. Recommended dosage is between 0.6 to 0.9 kg/ m³ of concrete.

Storage

Store under cover away from heat sources.

Cautions

Health and Safety

There are no health hazards associated with PP Fiber in normal use.

PP Fiber

Fire

PP Fiber is combustible and will burn if exposed to flame or other sources of ignition.

More from Don Construction Products

A wide range of construction chemical products are manufactured by DCP which include:

- ▲ Concrete admixtures.
- ▲ Surface treatments
- ▲ Grouts and anchors.
- ▲ Concrete repair.
- ▲ Flooring systems.
- ▲ Protective coatings.
- ▲ Sealants.
- ▲ Waterproofing.
- ▲ Adhesives.
- ▲ Tile adhesives and grouts.
- ▲ Building products.
- ▲ Structural strengthening.

Note:

We endeavour to ensure that any information, advice or recommendation we may give in product literature is accurate and correct. However, because we have no control over where and how products are applied, we cannot accept any liability arising from the use of the products.

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