

Macro PP Fiber

High performance monofilaments polypropylene macro fiber



Description

Macro PP Fiber is a synthetic macro fiber manufactured of 100% polypropylene fibers containing no reprocessed olefin materials and with excellent alkali resistant, impermeable and non-corrosive properties.

The unique composition of Macro PP Fiber makes it an excellent alternative to the traditional reinforcement steel mesh in order to significantly reduce the plastic shrinkage cracking and enhance the durability and the mechanical properties of the cementitious mixes.

Applications

Macro PP Fiber is ideally designed to decrease the plastic shrinkage cracking in the following applications:

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

Advantages

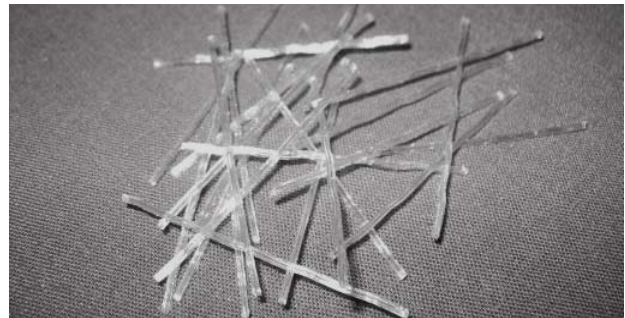
- ▲ Controls and inhibits crack formulation caused by plastic shrinkage, settlement or other internal stresses in concrete.
- ▲ Cost effective, replaces secondary reinforcements steel mesh.
- ▲ High tensile strength.
- ▲ Easily distributed throughout the cementitious mix.
- ▲ Compatible with all types of cement and concrete admixtures.
- ▲ Rust free.

Standards

- ▲ Macro PP Fiber complies with the requirements of ASTM C1116, Type III.
- ▲ Macro PP Fiber complies with BS EN 14889-2 for structural use in concrete.

Technical Properties:

Composition:	100% virgin polypropylene
Shape:	Monofilaments macro fiber
Specific gravity:	0.95 ± 0.05
Modulus of elasticity :	3.4 - 4.0 GPa
Absorption:	Nil
Melting point:	160°C
Ignition point:	580°C
Chloride content:	Nil
Sulphate content:	Nil
Alkali content:	Nil



Method of Use

Mixing

Macro PP Fiber is added to the mixer before, during or after batching of concrete. The mixing time and speed should be as per ASTM C94. Before discharging the mixture, set the mixer at the maximum speed for 1 - 2 minutes to ensure uniform distribution.

Dosage

Dosage of Macro PP Fiber will vary depending on the area of application and the required properties of concrete mixes.

Typical dosage is between 1.0 - 5.0 kg/m³ of concrete.

Please contact DCP Technical Department for assistance in product optimization.

Don Construction Products Qatar W.L.L

New Industrial Area, Street 21,
Zone 81, bldg. # 9
Doha - Qatar

Macro PP Fiber

Packaging

Macro PP Fiber is available in 6 kg bags.

Storage

Store in original unopened packaging in dry and shaded areas.

Cautions

Health and Safety

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

Fire

Macro 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.

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Note:

We endeavor to ensure that any advice, recommendation or information we may give in product literature is accurate and correct. However, due to the fact that we have no direct or continuous control over where or how the products are applied, DCP cannot accept any liability either directly or indirectly arising from the use of DCP products, whether or not in accordance with any advice, specification, recommendation or information given by us.

