

# Donplast PP Fiber

High performance monofilament polypropylene fibers (Formerly known as Flocrete PP Fiber)



## Description

Donplast PP Fiber is a micro reinforcement, manufactured of 100% polypropylene fibers containing no reprocessed olefin materials designed for use with all cementitious mixes.

The inclusion of Donplast PP Fiber within a concrete mix or cementitious mixes will control shrinkage cracks and will act as an alternative to traditional crack control steel mesh.

## Applications

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

- ▲ Slab on grade.
- ▲ Elevated slabs.
- ▲ Parking areas.
- ▲ Stamped concrete.
- ▲ Precast 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.
- ▲ High tensile strength.
- ▲ Easily distributed throughout the cementitious mix.
- ▲ Compatible with all types of cement and concrete admixtures.
- ▲ Rust-free.

## Standards

Donplast PP Fiber complies with the requirements of ASTM C1116, Type III and ASTM D7508.

## Technical Properties:

Composition:	100% virgin polypropylene
Specific gravity:	0.90 ± 0.05
Tensile strength:	20 - 100 ksi
Modulus of elasticity:	490 - 580 ksi
Absorption:	Nil
Melting point:	320°F
Ignition point:	1070°F
Chloride content:	Chloride-free
Sulphate content:	Sulfate-free
Alkali content:	Alkali-free

## Method of Use

### Mixing

Donplast 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 Donplast PP Fiber will vary depending on the area of application and the required properties of concrete mixes. Typical dosage is between 0.5 to 1.0 lb/yd<sup>3</sup> (0.3 to 0.6 kg/m<sup>3</sup>) of concrete.

### Packaging

Donplast PP Fiber is available in 3/4" (19 mm), 1/2" (13 mm), 1/4" (6 mm) and 1/8" (3 mm) fiber length, filled in 0.5 lb (0.2 kg), 0.67 lb (0.3 kg), 1.0 lb (0.45 kg), 1.3 lb (0.6 kg) and 2.0 lb (0.9 kg) bags.

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## Storage

Store in original unopened packaging in dry and shaded areas.

If these conditions are exceeded, contact DCP Technical Department for advice.

## Cautions

### Health and Safety

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

### Fire

Donplast 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 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.

