Donplast ST Fiber Type I

High performance steel fi bers with hooked ends (Formerly known as Flocrete ST Fiber Type I)

Description

Donplast ST Fiber Type I is steel wire filaments with hooked ends. Donplast ST Fiber Type I is suitable for use with all types of concrete mixes to enhanced flexural reinforcement, improve shear strength and control temperature and shrinkage cracks.

Applications

- Slab on grade.
- Parking areas.
- Precast concrete.
- Water tanks.
- Pavements.
- Shotcrete.
- Composite decks..

Advantages

- Significantly reduces the risk of plastic shrinkage cracking.
- Provides three-dimensional reinforcement.
- Increases fatigue and abrasion resistance.
- Increases overall durability, and flexural bending strength.
- Increases impact and dynamic load resistance.
- Economical solution.

Standards

Donplast ST Fiber Type I complies with the requirements of Standard Specification for Steel Fibers for Fiber-Reinforced Concrete ASTM A820 as a Type I.

Method of Use

To ensure proper mixing, Donplast ST Fiber Type I should never be added as the first component of the concrete or mortar mix.

Donplast ST Fiber Type I can be added to the concrete mixture at any time before the placement of the concrete. It is generally recommended to add any fiber material at the ready-mix concrete plant during batching.

Mixing time should be continued for 5 minutes at maximum mixing speed to ensure a uniform distribution of the fibers in the concrete mix.

Product Range:

Diameter (± 0.8 mils):	Length (± 4%)	Aspect ratio (± 4%)	Tensile strength (ksi)
39.4	2.0 inch	50	160 - 200
29.5	2.4 inch	80	160 - 200

Dosage

The recommended dosage of Donplast ST Fiber Type I is 17 to 100 lb. per yd^3 of concrete (10 - 59 kg per m^3). Representatiive trials should be conducted to determine the optimum dosage of Donplast ST Fiber Type I to meet the performance requirements by using the materials and conditions in actual use.

Packaging

Donplast ST Fiber Type I is available in 44 lb (20 kg) bags.

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 ST Fiber Type I in normal use.

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Flocrete ST Fiber Type 1

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.