

DonFiber ST Type I

High performance steel fibers with hooked ends (Formerly known as ST Fiber Type I)



DESCRIPTION

DonFiber ST Type I is steel wire filaments with hooked ends. DonFiber ST 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

DonFiber ST 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, DonFiber ST Type I should never be added as the first component of the concrete or mortar mix. DonFiber ST Type I should be added during or after the batching of the concrete mix.

Mixing time should be continued for 5 minutes or 70 revolutions to ensure a uniform distribution of the fibers in the concrete mix. The addition of DonFiber ST Type I at the recommended dosage rates may decrease the slump; however, additional water should not be added. To achieve the desired workability, only a water reducing or high range water reducing admixture should be used.

The addition of DonFiber ST Type I at the recommended dosage rate does not require any changes in mix design or application changes. The fiber reinforced concrete can be mixed, sprayed or placed using conventional equipment.

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 DonFiber ST Type I is 17 to 100 lb. per yd³ of concrete (10 - 59 kg per m³). Representative trials should be conducted to determine the optimum dosage of DonFiber ST Type I to meet the performance requirements by using the materials and conditions in actual use.

PACKAGING

DonFiber ST 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 DonFiber ST Type I in normal use.



DonFiber ST Type 1

WARRANTY

Unless expressly stated otherwise in the Sales Documents, the Limited Warranty shall expire on the expiry date listed on the Product's label or packaging. The full text of DCP's limited warranty is found in DCP's standard terms and conditions of sale (the "Terms"), which are available at [DCP Website/USA – Terms & Conditions](#). DCP's limited warranty is in all cases subject to, and conditioned upon, the Terms.

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.

Don Construction Products Inc.

Lancaster, SC 2970, USA

info.usa@dcp-int.com

www.dcp-int.com

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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