



# Fosroc Fibrecrete ST750

## Macro synthetic fibre for concrete reinforcement

### Description

Fibrecrete ST750 is a macro synthetic fibre for concrete reinforcement. The product is embossed along its length and is rectangular in shape. This fibre is available in lengths from 45 mm to 55mm.

### Coatings

No coatings are used in the production of Fibrecrete ST750.

### Raw Material

Polypropylene with a density of 910 Kg /m<sup>3</sup>.

### Tape around the fibres

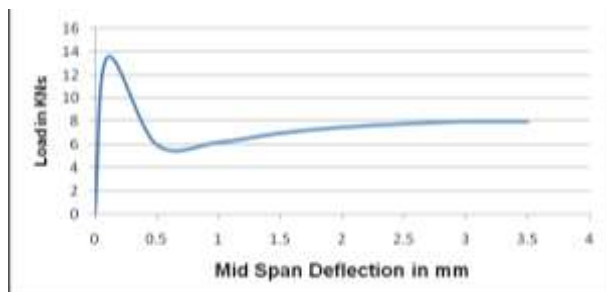
The fibres are delivered in pucks and the tape holding the pucks together is made of cold water soluble PVA.

### Properties

Average width (mm)	0.90
Length (mm)	45 to 55
Tensile strength (MPa)	475
Modulus of elasticity MPa 10 -30 %	4500
Imprint frequency	55%
Melting Point	150-170 °C
Water absorption	0
Acid/Alkali resistance	Excellent

### Effect on the flexural strength

Beam tests to NBN EN 14651 were conducted on prototype samples resulting in an average load-deflection curve



### Effect on the consistence of the concrete

Vebe test on the control mix 2 seconds  
Vebe test on the control + 5 Kg Fibrecrete ST750 fibres 3 seconds

### Results compared to the Limits set by EN 14889 -2 -2006

	Crack mouth opening displacement 0.5	Crack mouth opening displacement 3.5
Minimum allowable values	1.5 MPa	1.0MPa
5Kg Fibrecrete ST750	1.6 MPa	2.0MPa

### Factory production control

We confirm that our factory production control procedures include control of the tenacity, modulus of elasticity, length and shape of the Fibrecrete ST750. In addition for each batch of fibres produced information is recorded on the diameter of the fibre and crimp depth together with the machine control parameters.

### Application instructions

#### Mixing Procedure

When adding Fibrecrete ST750 into a concrete mix, careful attention must be taken in the batching and mixing procedure to order to achieve optimum results. Therefore the following procedures are recommended depending on the individual situation:

#### Wet Batch Concrete Plants

For wet batch plants, the fibre should be added to the concrete plant mixer with the other concrete ingredients. On previous contracts this has done by adding the Fibrecrete ST750 pucks directly into the plant mixer or onto the aggregate conveyor belt. If the Fibrecrete ST750 cannot be added to the plant mixer then the fibres should be added to the truck mixer as the first ingredient and then mixed for a minimum of 3 minutes with a minimum of 150 litres, or one third of the total batching water; whichever is greater. The premixed concrete should then be discharged from the plant mixer into the truck mixer.

#### Dry Batch Concrete Plants

For dry batch plants the Fibrecrete ST750 should be added as the first ingredient into the truck mixer and mixed for a minimum of 3 minutes with a minimum of 150 litres, or one third of the total batching water; whichever is greater. After 3 minutes the other ingredients should be ribbon fed into the truck mixer.

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## Packaging

The fibres are supplied in pucks which have a diameter of approximately 10 cm. The fibres are delivered in boxes of which weigh 8, 10 or 12 Kg. The pallets are one way pallets and have a dimension (H X L X W) 2000 mm X 1100 mm X 1300 mm we can get and 972 Kg on a pallet . Alternatively, we can supply in 4,5 or 6 kg paper sacks.

## Dossage

Quantity	Strength
5kg	500J
7kg	800J
8kg	800J

## Identification

All boxes have a label which has a batch number. This number is so that we can trace the fibre back to our production and testing records.

## Storage and transport

The fibres should be transported and stored in dry rain free conditions at all times. Handling and loading should be by use of a forklift truck. Pallets should be transported a maximum one pallet high.

## Emission of dangerous substances

We can confirm that there will be no dangerous emissions of substances from our Fibrecrete ST750 and confirm that all of the constituent materials where relevant have been registered under the new reach regulations. For your perusal also find attached the MSDS for the product.



### Important note

Fosroc products are guaranteed against defective materials and manufacture and are sold subject to its standard Conditions for the Supply of Goods and Services, copies of which may be obtained on request. Whilst Fosroc endeavours to ensure that any advice, recommendation, specification of information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation or information given by it.

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