Concast™ CSF 50

Crimped Steel Fiber to add muscles to concrete

PRODUCT DESCRIPTION

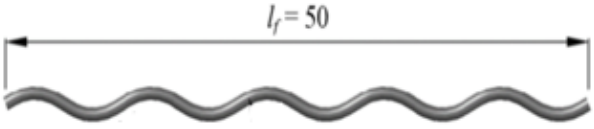
Concast CSF 50 is a low carbon, cold drawn steel wire fiber designed to provide concrete with temperature and shrinkage crack control, enhanced flexural reinforcement, improved shear strength and increase the crack resistance of concrete. It is a reliable, cost efficient concrete reinforcement that is designed to be easy to mix, place and finish.

APPLICATION AREAS

- Commercial & Industrial Slabs on ground
- Bridge decks, overlays & pavements
- Precast concrete applications
- Shotcrete, tunnel linings & slope stabilization
- Mass concrete & composite deck construction
- Low cement castable

FEATURES & BENEFITS

- ✓ Increases impact, shatter and abrasion resistance of concrete
- ✓ Reduces segregation, plastic settlement, and shrinkage cracking of concrete.
- ✓ Provides three-dimensional reinforcement against macro-cracking.
- ✓ Increases overall durability, fatigue resistance and flexural toughness.
- ✓ Reduction of in-place cost versus wire mesh for temperature/ shrinkage crack control.
- ✓ Easily added to concrete mixture at any time prior to placement.



CLASSIFICATION STANDARD

- ✓ **ASTM A820 Type I (USA) American Society for Testing & Materials**
- ✓ **ASTM C1116 (USA) American Society for Testing & Materials**
- ✓ **ASTM C1018 (USA) American Society for Testing & Materials**

COLOUR

Low carbon cold drawn, Bright & clean steel wire

DOSAGE

Depending on the structural requirements dosage may vary. For general guidelines the dosage recommended are 15-30 Kg/m^3 for Concrete Slab.

TECHNICAL DATA

Material	Low carbon cold drawn steel wire
Tensile Strength	850 Mpa (Minimum)
Fiber Length	50mm (Average)
Deformation	Continuously deformed segment
Modulus of Rupture	1 to 2 x Plain Concrete
Shear Strength	1.25 to 2 x Plain Concrete
Fatigue Resistance	1.2 to 2 x Plain Concrete
Restrained Shrinkage Cracks	Reduced crack width
Corrosion Resistance	No corrosion observed

Confloor Technologies LLP| Registered & Corporate Office : SCO 640, 2nd Floor, B-Block, Greenfield Colony, Faridabad- 121010. Haryana, INDIA. Tel : +91 129 4198906

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APPLICATION GUIDE

Concast CSF 50 may be added before, during or after the batching of the concrete as per ASTM C 94 (4- 5 minutes at mixing speed or approximately 60-70 revolutions). In batching plants fibers to be added by a shaker or through hopper to the aggregate on a conveyor belt during aggregate addition and mixed in normal condition. If fibers are added to truck mounted mixer the drum should rotate at maximum speed and the steel fibers to be added slowly. This is important to avoid clump avoiding balling effect. Depending on fiber type dose rate the concrete slump to be increased by adding super-plasticizer, before fibers are added. Use of Alkali resistant glass fibers, **Concast ARG 12**, is beneficial along with steel fibers. Steel fibers should not to be used as a first component in the concrete mix.

PRODUCT INFORMATION

Packaging: Available in 25 kgs HDPE Bags

Shelf Life & Storage: 24 months from date of manufacturing when stored properly in unopened sealed packaging in cool dry condition away from rain and sunlight with temperatures ranging from +2ºC to 40ºC.

PRECAUTION

Use of fibers may cause an apparent loss in measured slump of concrete. This may be offset with the use of a water reducing admixture if necessary. Fibers should never be added to a “zero-slump” concrete. Ensure a minimum concrete slump of 3” (80 mm) prior to addition of any fiber material. Fibers may also be added in loose form to aggregate charging devices. In all cases, consult the Safety Data Sheet before use.

Loose fiber material should be disposed in proper receptacles for refuse. Finishing equipment with fibers embedded in concrete should be thoroughly cleaned.

SAFETY INFORMATION

Concast CSF 50 has a risk of injury from protruding fibers. Use of gloves and eye protection goggles to be used while using steel fibers. Use no Hooks. No stacking is required.

For most current data sheet and SDS, write to us at info@confloors.in

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