

TechnoFiber™ CS

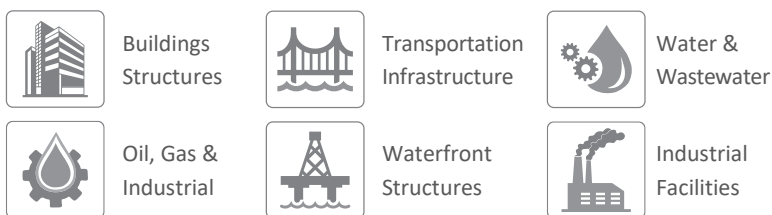
Chopped Steel Fiber

TECHNOPOL

مقاوم سازی تکنوپل

PRODUCT DESCRIPTION

TechnoFiber™ CS are filaments of steel wire for reinforcement of concrete and mortar. For manufacturing wire fibers are using wires of different diameters deformed and cut to lengths. Steel fibers are designed specifically for the reinforcement of concrete, mortars and other cementitious mixes. TechnoFiber™ CS is a cold drawn wire fiber, deformed with hooked ends to provide optimum performance within the concrete mix.



PHYSICAL PROPERTIES

	Unit	TechnoFiber™ CS
Fiber length	mm	50
Equivalent diameter	mm	1
Tensile strength	MPa	1050
Fiber types		Simple - hooked

ADVANTAGES

- Reduces plastic contraction
- Reduces the thermal contraction and expansion of hardened concrete
- Improves the impact strength and compression resistance
- Helps achieving a homogeneous ductile concrete, increases its elasticity and, as final result, increases bearing in concrete elements.
- Reduces the possibility of forming cracks
- Increases the wear-proofness of the floor
- Increases floor resistance even at temperature changes and thermal shocks.

TYPICAL USES

- Industrial flooring
- Highways paving
- Airport runways
- Earthquake resistant structures
- Maritime structures
- Lining tunnels
- And other ground-level constructions.

PACKAGING

Metallic fibers are packed in laminated paper bags of 25 kg.

INSTALLATION PROCEDURE

MIXING

Mixing and homogenization can be achieved either at the concrete station or directly in the truck mixer in 5 to 7 minutes at high speed.

The fiber dosage will vary depending on the type of application, concrete mix design and the performance/toughness requirements of each particular project. Typically, steel fiber dosage will be in the range of 20kg to 40kg per cubic meter.

PLACING

TechnoFiber™ CS can be pumped and placed using conventional equipment. Hand or vibratory screeds.

FINISHING

Conventional finishing techniques and equipment can be used when finishing steel fiber concrete in some cases an extra bull float process is advised and lowering the angle of the power float blades will help to minimize fiber exposure on the surface.

STORAGE

Pallets should be protected against rain



and snow. Do NOT stack pallets on top of each other.

HANDLING

It is recommended that gloves and eye protection be used when handling or adding steel fibers to concrete.

FAIRST AID

In case of skin contact, wash thoroughly with soap and water. For eye contact, flush immediately with plenty of water; contact physician immediately. For respiratory problems, remove to fresh air. Wash clothing before reuse.

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