

FIBERTECH ST 80x60

Steel Fiber Reinforcement For Concrete



DEFINITION

FIBERTECH ST 80x60 is a steel wire for concrete reinforcement that increases concrete strength and prevents cracks when homogeneously mixed with concrete.

USAGE AREA

- Industrial floor applications
- Airports
- Concrete roads
- Ports
- Concrete pipes
- Tunnels
- Parking floors
- Fuel stations

TECHNICAL SPECIFICATIONS

Type	Cold drawn- Glueless
Number of wires per kg	4600 tl / kg
Total fiber length per 15 kg	2.9 km / * m3
Tensile strength	Min. 1700 N / mm2 (Mpa)

SHAPE AND PERFORMANCE



STANDARDS

- FIBERTECH ST 80x60: EN 14889-1

USAGE ADVANTAGES

- Provides maximum impact resistance.
 - Provides advanced crack control.
 - It increases the load carrying capacity.
 - It saves money and time.
 - Provides lower labor costs.
- Reduces risk for worker and worker health.

USAGE AND QUANTITY

General points to be considered;

- Water / cement ratio should be kept at a maximum of 0.45.
- Concrete slump should be at least 12 cm.
- The cement amount in the concrete should be at least 320 kg / m3.
- Concrete compressive strength should be at least 20 N / mm2.
- The problems that can be encountered in the processability of concrete should be solved not by increasing the mixing water, but by adding plasticizer concrete additive.
- Plasticizer additive should be added to the mixture before adding steel fibers.
- Slump can be adjusted with redo additives on the construction site.

Addition of wires to concrete;

Mixing in concrete plant;

Together with the aggregates;

- The fibers are mixed by pouring them on aggregate and sand.
- Cement, water and other additives are added to the mixture.
- It is mixed until a homogeneous mixture is obtained.

On ready mixed concrete;

- The fibers are added to the ready-mixed concrete in the concrete plant.
- The fibers are mixed until they are well mixed (2-4 minutes).

Mixer in the transmixer;

- With aggregates;
 - Aggregate and fibers are put into the transmixer and mixed.
 - Cement, water and other additives are added.
 - Mix until a homogeneous mixture is obtained (2-4 minutes).
- On ready mixed concrete in the transmixer;
- Mixer drum starts to be turned with high speed.
 - The fibers are mixed into the concrete at a speed of 20-30 kg / minute.
 - After adding all the fibers, the mixer is mixed for another 5 minutes.

Attaching the wires to the concrete with the machine;

- The fibers are added to the ready mixed concrete while the mixer is rotating.
- No additional mixing time is required.

STORAGE CONDITIONS AND PACKING

- It must be stored in its original packaging.
- Shelf life is indefinite when stored in dry, protected environments.
- It is offered for sale in 20 kg bags and 1000 kg pallets.

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