

# FIBERMIX

HIGH STRENGTH STRUCTURAL STEEL FIBRE FOR CONCRETE REINFORCEMENT



CONCRETE  
line

FIBRE TO REINFORCE  
CONCRETE



**FIBERMIX** is a low carbon structural steel fibre that gives concrete high ductility and mechanical impact strength. The particular shape of the fibre ensures high anchorage in the cement matrix.

## ADVANTAGES

The physical and mechanical properties and special geometry make **FIBERMIX** the ideal solution for mortar and concrete reinforcement.

**FIBERMIX** gives concrete:

- ✓ High impact resistance
- ✓ High ductility and toughness of the structure
- ✓ High resistance to fatigue and dynamic loads
- ✓ Improved post-breakdown behaviour
- ✓ Excellent crack control
- ✓ Quick and easy application without special equipment
- ✓ Homogeneous distribution throughout the concrete mass
- ✓ Possibility of replacing the main reinforcement in flooring
- ✓ Partial replacement of secondary reinforcement.



## APPLICATION

**FIBERMIX** improves the post-cracking tensile behaviour of concrete mixes and is particularly used in the following applications:

- ✓ Industrial flooring in concrete
- ✓ Prefabricated structural element
- ✓ Parking areas, airport runways, storage areas
- ✓ Casting of structures subject to high static and dynamic loads
- ✓ Casting of decks, slabs and thin-section structures
- ✓ Hydraulic works
- ✓ Shrinkage-compensated mortars
- ✓ Anti-seismic systems.



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## APPLICATION

- ▶ Place all the mix components (aggregates, water, cement and admixtures) in the concrete mixer and with the mixer rotating at high speed gradually add fibres until the desired dosage is reached.
- ▶ Continue mixing for at least 5 minutes to ensure even distribution.

## PACKAGING AND STORAGE

**FIBERMIX** is supplied in 25 kg boxes on 1200 kg pallets.  
Store pallets safe from exposure to bad weather.

## YIELD

The dosage of **FIBERMIX** is chosen according to the characteristics desired for the structure, and this depends on the type and stresses to which it will be subjected.

Typically, the dosage ranges from 30 to 70 kg/m<sup>3</sup> of concrete.

## PRODUCT CHARACTERISTICS AND PERFORMANCE

COMPOSITION	High strength, low carbon steel
LENGTH	50 mm
EQUIVALENT DIAMETER	1 mm
ASPECT RATIO (L/D)	50
SHAPE	Hooked at the end
TYPE	Loose
TENSILE STRENGTH (R <sub>m</sub> )	1180 MPa
FIBRE WEIGHT (G/EACH)	0.3266
NO. OF FIBRES PER KG	3087
<b>DIMENSIONAL TOLERANCES</b>	
EQUIVALENT LENGTH AND DIAMETER	± 10%
ASPECT RATIOS (L/D)	± 15%

### Legal notes – SLCMP version of 01.03.2017

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