

FIBERFORCE MACRO FIBER



FIBERFORCE MACRO FIBER is a special product which is developed for composite micro-reinforcement technology. It provides structural micro reinforcement speciality and advantage for concretes. By using high dosages it provides resistance to static and dynamic loads. It separates fastly and homogenously in the mixture without balling. It doesn't changes the rheology of the concrete and provides the same effect of steel fiber and polypropylene fiber together. Not only it increases the physical properties, performance and also develops durability speciality.

MACRO FIBER is developed as a secondary reinforcement system for to use at in cast in situ, prefabrics and dry/wet shotcrete [spray] applications.

MACRO FIBER provides toughness, residual strength resistance, energy absorbance, impact strength and fatigue resistance to concretes which are working under high loads. Also the plastic and dry shrinkages can be controlled by using Macro Fibers.

MACRO FIBER is a technical and economical alternative of "Steel Mesh" for the applications of all field concretes, slab concretes and uncaring coating concretes.

MACRO FIBERS are always at the correct place of mixture by their three dimensional homogenous separation and they don't effect the hydration and water/cement ratio. Macro Fibers are suitable with all the concrete additives.



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TECHNICAL PROPERTIES

Length of Fiber	50 mm
Strength	250 – 350 MPa (N/mm ²)
Elastic Module	2500 – 3000
Elongation	15 – 20 %
Softening Point	160 °C
Melting Point	230 °C
Ignition point	590 °C
Chemical Resistance	Excellent
Alkali Resistance	Excellent
Conductivity	Very Low

MATERIAL PROPERTIES

- ✳ Non corrosive
- ✳ Imperishable / Non- degrade
- ✳ Chemically Inert
- ✳ Non-Magnetic
- ✳ Harmless for the ridges of the concrete

CONCRETE PERFORMANCE

- ✳ Early strength in plastic concrete
- ✳ Impact Strength
- ✳ Ductility
- ✳ Toughness
- ✳ Residual Strength Resistance
- ✳ Fatigue Resistance
- ✳ Resistance Capillary Cracks
- ✳ Impact carrying after cracks

USING DOSAGE

4.5 kg/m ³	Slabs and Field Concretes
9.0 kg/m ³	Precast Concretes
13.5 kg/m ³	Shotcrete
18.0 kg/m ³	Heavy Service Floors

PACKING DETAILS

Packing	5 kg net fibers in box
Box Number per Pallet	56 boxes
Pallet Weight	56 box = 280 kg
Pallet Dimensions	80 x 120 x 200 cm



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