

PRODUCT FAMILY

Miscellaneous

MCT

MC-Fiber

Synthetic Fiber Mesh-Reinforcement System

MC-Fiber is a polypropylene synthetic fiber mesh introduced into concrete, shotcrete and plastering mixes to inhibit plastic-shrinkage cracking. The source references ASTM C1116 and C1399.

Specific gravity	Dosage	Fiber length	Standards
0.90	0.90 kg/m ³ concrete	12-30 mm	ASTM C1116 ASTM C1399

Description

MC-Fiber is a polypropylene synthetic fiber mesh introduced into concrete, shotcrete and plastering mixes to inhibit plastic-shrinkage cracking. The source references ASTM C1116 and C1399.

Where to use

- Roadways and highways.
- Shopping malls.
- Airport runways.
- Industrial plants.

MCT TECHNICAL DATA

MC-Fiber

Synthetic Fiber Mesh-Reinforcement System

Advantages

- Inhibits plastic-shrinkage cracking and improves cohesiveness in concrete.
- Adds abrasion resistance and reduces permeability.
- Alkali-proof and improves durability.
- Simple to use with better impact and fatigue resistance.
- Resists bacterial growth and ultraviolet exposure, as stated by the source.
- Provides three-dimensional secondary reinforcement.

MCT TECHNICAL DATA

MC-Fiber

Synthetic Fiber Mesh-Reinforcement System

Technical data

Specific gravity	0.90
Absorption	Zero
Fiber length	12-30 mm
Fiber thickness	0.0965 ± 10% mm
Modulus of elasticity (Young's)	3600-3900 MPa
Elongation	14-25%
Tensile strength	550-600 MPa
Thermal conductivity	Low
Minimum residual average strength	50 psi = 0.35 MPa
Melting point	160°C

MCT TECHNICAL DATA

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Technical data - continued

Ignition point	590°C
Electrical conductivity	Low
Acid and salt resistance	High
Rate of use	0.90 kg/m ³ of concrete

Method statement

MC-Fiber is added either to the dry components before mixing or to the already mixed paste in the mixer just before pouring. In both cases, a few minutes of mixing is enough to obtain good fiber dispersion.

Compatibility

MC-Fiber is compatible with the other concrete admixtures listed by the source.

Rate / consumption

The dosage rate of MC-Fiber is 0.90 kg/m³ of concrete.

