

MC-Fiber 120V

High performance micro polypropylene fibre.

PRODUCT DESCRIPTION:

MC-Fiber 120V is a high performance micro polypropylene fibre, developed as a crack controlling additive for cementitious materials. It is available as monofilament 12 mm in length for concrete and mortar. It is used to inhibit the formation of small cracks which can occur through plastic shrinkage, premature drying and early thermal changes, in order to provide utilization of the intrinsic properties of the hardened cementitious material.

MC-Fiber 120V is based on selected raw materials and manufactured under controlled conditions to give a consistent product.

PRODUCT PROPERTIES:

- Cost effective - replaces anti crack wire mesh.
- User friendly - decreases construction time and labour.
- Versatile - Inhibits intrinsic cracking in concrete, improves finishing characteristics, concrete durability and acts as a rust proofer.
- Disperses uniformly throughout the mix and does not rust.

AREAS OF APPLICATION:

- **MC-Fiber 120V** is primarily used as a crack controlling additive for cementitious materials. Typical applications are:
 - Crack control in ready-mix concrete, pre-cast concrete, conventional shotcrete, screeds, rendering mortars, micro- silica concrete.
 - Concrete slabs, pavements, driveways, imprinted concrete.
 - Water retaining structures, marine concrete etc.
 - Patch repair, thin section walling etc.

STANDARDS COMPLIANCE:

MC-Fiber 120V complies with the requirements of ASTM C111.6.

APPLICATION NOTES:

- **Dosage:**
 - The optimum dosage of **MC-Fiber 120V** to meet specific requirements should always be determined by trial mixes using the materials and conditions that will be experienced in use.
 - As a guide to trials, the following dosage levels of **MC Fiber 120V** are recommended.
- **Use at other dosages:** Dosages outside the typical ranges quoted above can be used to meet particular requirements, contact MC-Bauchemie for advice.
- **Effects of overdosing:** Overdosing of **MC-Fiber 120V** will generally produce a reduction in workability and an increase in the cohesiveness of the mix.
- Where shown on the contract documents, concrete shall be manufactured using **MC-Fiber 120V**, a high performance micro polypropylene fibre. The crack controlling additive shall meet the requirements of ASTM C111.6 and have a tensile strength of minimum 300 N/m².

PROPERTIES:

Form	Polypropylene fibre
Specific gravity	0.91 - 0.93 g/cm ³
Fibre thickness	30 to 40 microns
Youngs Modulus	3000 MPa
Color of fiber	White fiber
Melting Point	160-170

PRODUCT CHARACTERISTICS:

Fibre length	12 mm
Aggregate size, max	32 mm
Dosage of 12 mm fibres	0.6 kg/m ³
Supply MC-Fiber 120V	0.6 kg soluble bags, 18kgs/box 1kg/pe bag, 20kgs/ pp woven bag
Storage	Should be stored in warehouse conditions below 35°C.

Note: The information provided here is based on our experience and correct to the best of our knowledge. It is, however, not binding. It will need to be adapted to the requirements of the individual building projects, to the specific application and to non-standard local conditions. Our data refers to the accepted engineering rules, which have to be observed during application. Given these preconditions we shall be liable for the accuracy of the information given as outlined in our sales and delivery terms and conditions. Recommendations by our employees that deviate from this information are only binding for us if they have been confirmed in writing. In all cases, the generally accepted rules and practices reflecting the current state of the art must be adhered.

Edition **01/2023**. Some technical changes have been made to this print medium. Older editions are invalid and may not be used.