

Synthetic fibers additive to concrete and plaster

PRODUCT

The **weberad fiber M** is a high performance microfilaments propylene fiber designed and formulated specially for the use in mortar and concrete. It is available in different length 6 mm, 12 mm, 18 mm, 20 mm and 50 mm. It is used to inhibit the occurrence of small cracks which can occur through plastic shrinkage, premature drying, and early thermal volume changes of the hardened cementitious materials. Due to their specific characteristics and ease of dispersion in concrete, they can be mixed at any stage in the concrete regardless of the consistency of concrete. They are extremely resistant to alkali. In addition, they adhere chemically to the matrix of the cement which highly contribute to the reinforcement and durability of the concrete and mortar. The hydration of the cement as well as mixing water requirement of concrete and mortar are not affected by the use of **weberad fiber M** fibers.

SCOPE OF USE

- Industrial flooring
- Precast
- Gunned concrete and mortar
- Tanks, silo
- Rendering

ADVANTAGES

Since they are completely integrated in the structure of the concrete and mortar they constitute a secondary reinforcement which improves the general material characteristics:

- Mechanical strength
- Abrasion resistance
- Impact resistance
- Concrete durability

CHARACTERISTICS

Color	White
Specific gravity	0.91
Alkali Content	Nil
Sulphate content	Nil
Air entrainment	Air content of the concrete will not be significantly increased
Chloride content	Nil
Young's modulus	3000 – 3750 MPa 4000-5500 Mpa (Size 12 mm)
Tensile strength	450-550 Mpa (Size 12 mm)
Constituents	Virgin polypropylene
Fiber thickness	18 - 30 micron
Melting point	>160°C
weberad fiber M conform to ASTM C-1116	

INSTRUCTIONS FOR USE

weberad fiber M fibers could be introduced in dry or wet mixing. Since they have the advantage of mixing in concrete or mortar in all phases. They could be even introduced in truck mixers, in which case 5 min. of mixing would be required.

DOSAGE RATES

0.60 to 0.9 kg/m³. Excessive overdosing will generally produce a reduction in workability, and an increase in the cohesiveness of the mixture.

PACKAGING

Available in 0.6 kg bag, 0.9 kg bag 25 kg bag and Jumbo bag. Fiber mesh is available in watersoluble paper bags and polyethylene bags.

STORAGE

Should be stored in dry conditions up to 3 years.

DISCLAIMER

While the company guarantees its products against defective materials, the use and application of these products are made without guarantee since the conditions of their application are beyond its control. It is recommended to verify with the company that the product is suitable for the intended use, and that this Data Sheet version is the latest one. The company may modify it without prior notice. Technical characteristics are listed for guidance only. For more information, please contact the company's office in your location.

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