

## Fibrillated polypropylene fibers additive for concrete and plaster

### PRODUCT

**weberad fibril 100** is a high performance micropropylene fiber designed and formulated specially for the use in mortar and concrete.

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.

The hydration of the cement as well as mixing water requirement of concrete and mortar are not affected by the use of **weberad fibril 100** fibers.

### SCOPE OF USE

- Canal Lining Works
- Industrial / Commercial Floorings
- Tunnel Lining Works
- Concrete Roads / Pavements
- Water Storage Tanks
- Swimming Pools
- Rooftops
- Pre-stressed concrete electricity poles
- Rock / Slope Stabilization
- Internal & External Plaster
- Precast Products – Pipes
- Structural Repairs & Restoration
- Concrete Slabs
- Shotcreting
- Mine Lining Works
- Roofing Sheets
- Bridges – Wearing Coat
- Stamped Concrete
- Decorative concrete
- Slab-on-Grade
- Tilt-up Panels

### 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:

- Inhibits plastic shrinkage cracks & settlement cracks
- Does not allow moisture or water to seep in due to reduction in permeability
- Fibrillated (Mesh) structure ensures better binding & anchoring with concrete aggregates.
- Distributes localized stresses & increase fatigue resistance

- Reduces unequal bleeding so solids in concrete do not settle unevenly & enhances cement hydration in fresh concrete there by increasing tensile & flexural strength
- Improves fire resistance characteristics in concrete there-by reducing risk of spalling
- Provides impact and abrasion resistance

### BENEFITS

- Reduction in seepage / dampness
- Reduced honeycombing & bleeding problems, ensuring uniform hydration
- Better quality & faster completion of work
- Reduce shrinkage cracks by over 90%
- Protects primary steel reinforcement from corrosion
- Ensuring better hydration

### CHARACTERISTICS

Composition	100% Virgin Polypropylene
Type	Fibrillated Form
Length	6, 12, 15, 20, 30, 40, 50, 60 & 120
Specific gravity	0.91 gr/cm <sup>3</sup>
Modulus of elasticity	500 ksi
Melt point	165°C
Ignition point	>360°C
Alkali, acid and salt resistance	High

### SPECIFICATIONS

**weberad fibril 100** shall be used in strict accordance with the supplier's recommendations and within time as specified in ASTM C94.

**weberad fibril 100** complies with ASTM Designation C1116 Type III 4.1.3 and with applicable building codes.

Standard ACI 302 procedures for placing, finishing and curing shall be followed when using **weberad fibril 100**.

### INSTRUCTIONS FOR USE

**weberad fibril 100** 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 at high speed would be required or 70 revolutions after the addition of weber.ad fibril 100 to ensure uniform distribution.

### DOSAGE RATES

0.60 to 0.9 kg/m<sup>3</sup>.

Higher addition dosages may be used to produce special concrete properties as per requirements.

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.

## STORAGE

Should be stored in dry conditions for 12 months.

## 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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