

POLYFIBER

Polypropylene fibers for reinforcement of concrete & mortar

DESCRIPTION

POLYFIBER is used as a reinforcement for mortars and as a secondary reinforcement for concrete, to prevent against cracks.

It is made of high performance multifilament polypropylene fiber that develops early stage cracks control, impact and fire resistant for cementitious materials, as well as freeze - thaw cycle resistance.

USES

- Roads
- Flooring
- Shotcrete
- Mortars
- Screeds
- Pavements
- Polished architectural panels
- Segmental lining
- Sewer pipes
- Highway safety barriers
- Stamped concrete
- Stucco Products
- Precast products

LIMITATIONS & PRECAUTIONS

Does not replace structural reinforcement.
Does not replace steel mesh used as secondary reinforcement and crack control.
Does not help to decrease concrete thickness.

PROPERTIES

- Better concrete durability & reduced surface dusting.
- Excellent crack reduction in early-age concrete.
- Improves impact and abrasion resistance.
- Improves mix cohesiveness.
- Reduces segregation of the mix.
- Significant improvement in freeze-thaw cycle resistance.
- Improves water migration.
- Reduces shotcrete rebound.
- Less concrete waste

APPLICATION PROCEDURE

In batching plant: Add POLYFIBER to dry or wet concrete. No additional mixing time is required.

In truck mixer on the jobsite or plant, mixing at high drum speed. Mixing time: 1 min per m³ to obtain a good fiber dispersion.

For mortars, hand mixing will take more time and it is preferably to be added to dry mortar and mixed before adding water.

DOSAGE

Standard dosing rate:

Crack control in concrete: 600 – 900 g/m³

Fire resistance in concrete: 1 - 3 Kg/m³

For mortar: 600g for 6 - 7 bags cement

PACKAGING

600g bag

SHELF LIFE

Can be kept for 24 months minimum in the original unopened packings in dry places.

TECHNICAL SPECIFICATIONS

Fiber length (mm): 6,12 & 18

Diameter (microns): 34

Material: Polymerized - olefin

Density: 0.910 g/cm³

Melting Point: 160°C – 170°C

Color: White

Tensile Strength, stretch-enhanced to:

300-400 N/mm²

Chemical resistance: Excellent, especially in alkaline conditions

The information contained herein corresponds to the best of our knowledge. The user must ensure beforehand that this product is suitable for a certain application. The user alone is fully responsible for any consequences deriving from the use of this product.