

POLYOLEFIN FIBERS MPH FIBER PLUS 60

Product description

MPH FIBER PLUS 60 are structural macro synthetic fibers for concrete reinforcement. Physical and chemical treatments assure the best concrete adherence and the highest toughness and energy absorption.



Properties

- · High energy sorption and high toughness.
- Reduction of micro-shrinkage fissures during drying and avoiding the formation of larger cracks.
- Reduces permeability.
- Increased resistance to impact and abrasion.
- Reduces the risk of breaking up the mass.
- Not affected by oxidation and corrosion processes unlike steel reinforced concrete.

Aplicattions

- Structural concrete reinforcement.
- Shotcrete and coating concrete (tunnels).
- Industrial floors and slabs.
- Precast concrete.
- And in general, for concrete in which it seeks to increase the tensile properties, impact and capacity of absorption (dissipation) of energy.

Technical characteristics:

• Raw material: 100% polyolefin

Density: 0,91 gr/cm³

MyPHor Materiales Especiales, S.L.



- Moisture absorption: Null.
- Fluidity: 1,8 a 3,2 gr/minute ASTM D-1238.
- Colour: Black.
- Transformation process: Extrusion.
- System: Flat and embossed Monofilament.
- Tensile strength: 560 MPa. En ISO 6892-1:2009.
- Elongation: 4% En ISO 6892-1:2009.
- Elastic modulus: 20,5 GPa. En ISO 6892-1:2009.
- Temperature Distortion: 110° C ASTM D-648.
- Decomposition temperature: 280° C ASTM D-648.
- Thickness of the fiber: 5.700 denniers.
- Equivalent Diameter =0,93 mm aprox.; (section = 0,5 mm²).
- Fiber length: 60 mm.

Dosage

- Floors and slabs: Recommended dosage is in the range of 2 kg/m³ to 10 kg/m³, depending on the structural specifications, but current dosages are 3 4 kg/m³
- Shotcrete: Recommended dosage is between 3 kg/m³ and 10kg/m³, although regular dosages are in the range of 3 kg/m³ to 6 kg/m³. The dosage ratio compared with the steel fibers to equalize energy absorption is between 1 / 6 and 1 / 9, depending on the type of fiber, and inter action with the prescribed shotcrete.
- Adjustment of dosages based on the project strength parameters requires prior testing.

Way of use

 Add as another component of the concrete during the mixing process, or on site with additional mixing, but never on the water before adding the rest of the components.

NOTE: Specifications subject to change for improvements. Polymeric fiber for structural use in concretes, mortars and pastes, based on UNE EN 14889 – 2:2008 regulations. **CE** n°: 1035 – **CPD** – **ES024048** B

MyPHor Materiales Especiales, S.L.

Registered Office: c/ Cardenal Marcelo Spínola, 48. 28016 Madrid - SPAIN

Tel.: +34 91 768 49 38 / +34 91 768 49 40

Fax: +34 91 384 46 18

Office: c/ Arte, 25. 1° D 28033 Madrid - SPAIN

Tel.: +34 91 768 49 38 / +34 91 768 49 40

Fax: +34 91 384 46 18