

POLYOLEFIN FIBERS MPH FIBER P-50

Product description

MPH FIBER P-50 are 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

- Specially designed for the execution of pavements, allowing to replace the iron mesh.
- 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.

MyPHor Materiales Especiales, S.L.

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Technical characteristics:

- Raw material: 100% polyolefin.
- Density: 0,91 gr/cm³.
- Moisture absorption: Null.
- Fluidity : 1,8 a 3,2 gr/minute ASTM D-1238.
- Colour: Grey.
- Transformation process: Extrusion.
- System: Flat and curly Monofilament.
- Tensile strength: 530 MPa. ASTM D-638.
- Elastic modulus: 7,4 GPa. ASTM D-790.
- Temperature Distortion: 110° C ASTM D-648.
- Decomposition temperature: 280° C ASTM D-648.
- Equivalent Diameter =0,68 mm aprox.
- Fiber length : 50 mm.

Dosage

- Floors and slabs: Recommended dosage is in the range of 2 kg/m³ to 5 kg/m³, depending on the specifications.
- 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. Version: 01/2020

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