

MasterFiber[®] 230 SPA

Structural Polypropylene Fibre for Reinforcing Cast Concrete

Material Description

MasterFiber[®] 230 SPA is extruded from a natural polypropylene homo polymer and formed into a crimped profile in order to anchor it in a cementitious matrix. Further reinforcing concrete, it adds toughness and ductility. This fibre is particularly suitable for alkaline environment, where a high chemical resistance is requested, in corrosive or aggressive environment.

Areas of Application

MasterFiber[®] 230 SPA can be used in:

- Pavement

- Industrial flooring
- Precast elements
- Drying shrinkage reinforcement

Dosage

The dosage of this synthetic fibre can vary from 2 to more than 10 kg per m³ in function of the specific characteristics requested for the fibre reinforced concrete. The use of MasterFiber[®] 230 SPA in substitution to primary steel mesh should be done after project calculation. It can substitute the secondary steel mesh reinforcement.

Technical Properties	
Structure of the Material	Polypropylene 100% (black and transparent.)
Design	Monofilament
Equivalent Diameter	0.77 mm
Length / Diameter Ratio	39
Length	30 mm
Tensile Strength	400 MPa
Specific Gravity	0.91 g/cm ³
Modulus of Elasticity	4.8 GPa
Secant Modulus	5000 MPa
Water absorption	Nil
Melting Point	160°C
Ignition Point	590° C
Number of fibres per kg	Approximately 62,000
Acid/alkali Resistance	High

The technical data included herein is the result of statistics and are not minimums guaranteed. If control data is desired, the "Sale Specifications" for the product can be requested from our Technical Department.

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Method of use

The fibres must be added to the concrete mixer after the water and admixtures and mixed for at least 5 minutes to ensure even distribution in the concrete.

MasterFiber® 230 SPA can be used in combination with all the admixtures of Master Builders Solutions particularly with MasterLife® SRA 100 in flooring application to protect concrete against drying shrinkage cracks.

Packaging

MasterFiber® 230 SPA is supplied in 6 kg bags in canutes.

Shelf Life and Storage

The material is very stable with no foreseen hazards. Protect against fire.

Health and Safety

For full information on Health and Safety matters regarding this product the relevant Health and Safety Data Sheet should be consulted.

MasterFiber® 230 SPA is extremely stable presenting little hazard to health. However, in fire conditions, carbon

monoxide, carbon dioxide and other gases or fumes may be evolved.

The following general comments apply to all products.

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs, (which may also be tainted with vapor until the product is fully cured and dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Keep away from children and animals. Reseal containers after use.

Spillage

Chemical products can cause damage; clean spillage immediately.

Note

Field service, where provided, does not constitute supervisory responsibility. For additional info contact your local Master Builders Solutions representative. Master Builders Solutions reserves the right to have the true cause of any difficulty determined by accepted test methods.

Important notes

- Prior tests are recommended before using the product.
- Do not use higher or lower dosages than those recommended without first consulting our Technical Department.

Disclaimer

The technical information given in this publication is based on the present state of our best scientific and practical knowledge. MBT Teknik Yapı Kimyasalları Sanayi ve Ticaret A.Ş. is only responsible for the quality of the product MBT Teknik Yapı Kimyasalları Sanayi ve Ticaret A.Ş. is not responsible for results that may occur because the product is used other than advised and/or out of instructions regarding

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the place and the method of use. This technical form is valid only till a new version is implemented and nullifies the old ones.

Contact

MBT Teknik Yapı Kimyasalları San. ve Tic. A.Ş.
Eyüp Sultan Mah. Sekmen Cad. Hayy 1000A No:26/8
Sancaktepe, İstanbul
Tel: 0216 561 35 45 www.mbt-tech.tr
master-builders-solutions.com/en-tr