

MasterFiber 240

Structural polypropylene fiber for reinforcing cast concrete

MATERIAL DESCRIPTION

MasterFiber 240 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.

MasterFiber 240 can be used in:

- Pavement
- Industrial flooring
- Precast elements
- Drying shrinkage reinforcement

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 240 can be used in combination with all the admixtures of Master Builders Solutions, particularly with MasterLife WP in flooring application to protect concrete against drying shrinkage cracks.

PERFORMANCE DATA AND PHYSICAL PROPERTIES*

Properties listed are for guidance and are not a guarantee of performance.

Material	Polypropylene (Black)	100%
Design	Monofilament	
Equivalent diameter	0.75mm	
Length	40mm	
Length / diameter ratio	53.3	
Tensile strength	338 MPa	
Modulus of elasticity	4.8 GPa	
Water absorption	Nil	
Density	0.91 g/cm ³	
Acid / alkali resistance	High	
Number of fibres per kg	Approximately 62,000	
Melting point	160°C	
Ignition point	590°C	

The technical Data reflected here is the result of statistical information and does not represent guaranteed minimums.

If control data is required, this can be obtained by requesting the sales specification from our technical department.

DOSAGE

The dosage of this synthetic fibre can vary from 1.5 to more than 9kg per m³ in function of the specific characteristics requested for the fibre reinforced concrete. The use of **MasterFiber 240** in substitution to primary steel mesh should be done after project calculation. It can substitute the secondary steel mesh reinforcement.

PACKAGING



The fibres are packed loose in 6 kg or 9 kg cardboard boxes. Alternative pack sizes are available upon request and should be specified when ordering.

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STORAGE AND SHELF LIFE

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

SAFETY PRECAUTIONS

MasterFiber 240 is extremely stable, presenting little hazard to health. However, in fire conditions, carbon monoxide, carbon dioxide and other gases or fumes may be evolved.

HANDLING AND TRANSPORT

The usual precautions and measures should be taken for handling any chemical substance. For example, use protective gloves and glasses. Wash hands before a break and on finishing work. Do not eat, drink or smoke during application.

The disposal of the product and its packaging is the responsibility of the end user and should be carried out according to current legislation.

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.

For more information, please consult the safety data sheet of this product.

NOTE

Technical support, where provided, does not constitute supervisory responsibility. For additional information contact your local MB Construction Chemicals Solutions South Africa (Pty) Ltd representative. MB Construction Chemicals Solutions South Africa (Pty) Ltd shall not be liable for technical advice provided.

MB Construction Chemicals Solutions South Africa (Pty) Ltd reserves the right to have the true cause of any difficulty determined by accepted test methods. Undertaking such tests is not, and shall not be deemed to be, an admission of liability or an assumption of any risk, loss, damage or liability.

QUALITY AND RESPONSIBLE CARE

All products originating from MB Construction Chemicals Solutions South Africa (Pty) Ltd are manufactured under a management system independently certified to conform to the requirements of the quality standards ISO 9001, environmental and occupational health and safety standards.

* Properties listed are based on laboratory-controlled tests.

DISCLAIMER

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