MasterFiber® 240

Structural polypropylene fibre for reinforcing cast concrete

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 sufficiently to ensure even distribution in the concrete.
MasterFiber 240 can be used in combination with all the admixtures of BASF, particularly with Rheomac® in flooring application to protect concrete against drying shrinkage cracks.

Properties	Value
Material	Polypropylene 100% (black)
Design	Monofilament
Equivalent diameter	0.75 mm
Length	40 mm
Length / diameter ratio	53.3
Tensile strength	338 MPa
Modulus of Elasticity	4.8 GPa
Water absorption	Nil
Density	0.91 g/cm³
Acid / alkali resistance	High
Number of fibres per kg	Approximately 62,000
Melting point	160ºC
Ignition point	590ºC
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 Specifications from our Technical Department.	

PERFORMANCE DATA AND PHYSICAL PROPERTIES

DOSAGE

The dosage of this synthetic fibre can vary from 1.5 to 4.5kg 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 6kg cardboard boxes. Alternative pack sizes are available upon request and should be specified when ordering.

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.

We create chemistry

MasterFiber® 240

NOTE

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

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.

* Properties listed are based on laboratory controlled tests.

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