

PRODUCT DATA SHEET

SikaFiber[®]-240

(formerly MasterFiber[®] 240)

Structural polypropylene fiber for reinforcing cast concrete

DESCRIPTION

SikaFiber[®]-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.

USES

SikaFiber[®]-240 can be used in:

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

CHARACTERISTICS / ADVANTAGES

SikaFiber[®]-240 is particularly suitable for alkaline environment, where a high chemical resistance is requested, in corrosive or aggressive environment.

PRODUCT INFORMATION

Product Declaration	Acid / alkali resistance - High Water absorption - Nil
Fibre Volume Content	Number of fibres per kg - Approximately 62,000
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.
Fibre Type	Monofilament
Shelf Life	The material is very stable with no foreseen hazards. Protect against fire.
Storage Conditions	The material is very stable with no foreseen hazards. Protect against fire.

Appearance / Colour	Polypropylene 100% (Black)
Dimensions	Length / diameter ratio - 53.3
Length	40mm
Diameter	0.75mm
Density	0.91 g/cm ³
Melting Point	160°C
Ignition Temperature	590°C
Tensile Strength	338 MPa
Modulus of Elasticity in Tension	4.8 GPa

SYSTEM INFORMATION

Systems	<p>Properties listed in this technical data sheet are for guidance and are not a guarantee of performance.</p> <p>The technical data reflected here is the result of statistical information and does not represent guaranteed minimums.</p> <p>If control data is required, this can be obtained by requesting the sales specification from our technical department.</p>
Compatibility	SikaFiber®-240 can be used in combination with all the admixtures of Sika South Africa.

APPLICATION INFORMATION

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

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LIMITATIONS

- 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 (SDS) of this product.

ECOLOGY HEALTH AND SAFETY

SAFETY PRECAUTIONS

SikaFiber®-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.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

Sika South Africa (Pty) Ltd

9 Hocking Place,
Westmead, 3608
South Africa
Phone +27 31 792 6500
www.sika.co.za



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