

PRODUCT DATA SHEET

Sika® Fibercast®-500 (GB)

Micro-Synthetic Fibrillated Fibre

PRODUCT DESCRIPTION

Sika® Fibercast®-500 (GB) are fibrillated micro-synthetic fibres for non-structural use in concrete, screed and mortar. Specifically engineered and manufactured in an ISO 9001 certified manufacturing facility for use in concrete applications. Sika® Fibercast®-500 (GB) was previously Fibercast-500.

USES

Sika® Fibercast®-500 (GB) fibres act mechanically by supporting the aggregate within the concrete and developing a uniform bleed system. The fibre does not affect the curing process chemically and does not absorb water. Typical applications include:

- Ready-mixed concrete and screed
- Precast
- Tanks and storage
- Marine products
- Walls
- Shotcrete

PRODUCT INFORMATION

Packaging	0.6 kg & 0.9 kg pulpable paper bags
Shelf Life	5 years when stored correctly
Storage Conditions	In original packaging, protected from moisture and direct sunlight
Density	Linear Density: 594 dtex
Dimensions	Length: 6 mm, 12 mm or 19 mm Equivalent Diameter: 0.92 mm
Melting Point	162 °C (324 °F)

CHARACTERISTICS / ADVANTAGES

- Increases cohesion and reduces segregation
- Inhibits and controls the formation of plastic shrinkage cracking in concrete
- Increased impact and abrasion resistance
- Inhibits water migration and freeze/thaw damage
- Allows thicker layers and reduces rebound and material waste in sprayed concrete

APPROVALS / STANDARDS

Conforms to the requirements of BS EN 14889-2:2006, Class Ib

DoP 37255860, certified by Factory Production Control Body 1136 and provided with the CE mark

DoC 57830179, certified by Factory Production Control Body 1136 and provided with the UKCA mark

TECHNICAL INFORMATION

Concreting guidance

The addition of Sika® Fibercast®-500 (GB) at the normal recommended dosage rate should not require any significant mix design changes. The fibre concrete can be mixed, sprayed or placed using conventional equipment.

APPLICATION INFORMATION

Recommended Dosage

0.6 - 1.8 kg/m³. Consult the Sika Technical Department for further advice, trials recommended.

Dispensing

Sika® Fibercast®-500 (GB) can be added directly to the concrete mixing system after the batching of the other ingredients and mixed for 4 to 5 minutes or 70 revolutions.

VALUE BASE

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.

USES

Sika® Fibercast®-500 (GB) should not be used to impart resistance to heat / fire or explosive spalling

ECOLOGY, HEALTH AND SAFETY

REGULATION (EC) NO 1907/2006 - REACH

This product is an article as defined in article 3 of regulation (EC) No 1907/2006 (REACH). It contains no substances which are intended to be released from the article under normal or reasonably foreseeable conditions of use. A safety data sheet following article 31 of the same regulation is not needed to bring the product to the market, to transport or to use it. For safe use follow the instructions given in the product data sheet. Based on our current knowledge, this product does not contain SVHC (substances of very high concern) as listed in Annex XIV of the REACH regulation or on the candidate list published by the European Chemicals Agency in concentrations above 0,1 % (w/w).

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.

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Product Data Sheet

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