

## PRODUCT DATA SHEET

# SikaFiber®-1050 B&BA HF

### STEEL FIBRES FOR CONCRETE



#### PRODUCT DESCRIPTION

SikaFiber®-1050 B&BA HF reinforcement system for beam and block floors is a high performance cold drawn segment wire fibre that is continuously deformed to provide optimum performance within the concrete. SikaFiber®-1050 B&BA HF are European Standard EN 14896-1 2006 compliant.

#### USES

Structural toppings to beam and block floors.

#### CHARACTERISTICS / ADVANTAGES

- High performance steel fibres
- Controls drying shrinkage cracking
- increases impact, abrasion and shatter resistance
- Increases concrete durability
- Pumpable reinforcement
- Alternative system to traditional mesh reinforcement
- Requires no minimum amount of concrete cover
- Always positioned in compliance with codes
- Safe and easier to use than traditional reinforcement
- Reduces construction time

#### APPROVALS / STANDARDS

Conforms to the requirements of BS EN 14889-1:2006 Fibers for concrete - Part 1: Steel fibres DoP 21902411, certified by Factory Production Control Body 1029 and provided with the CE mark BBA Agrément Certificate 21/5872

#### PRODUCT INFORMATION

|                           |   |
|---------------------------|---|
| <b>Chemical Base</b>      | Cold drawn continuously deformed steel wire   |
| <b>Packaging</b>          | SikaFiber®-1050 B&BA HF are supplied in 11.5kg boxes.   |
| <b>Shelf Life</b>         | 24 months from date of production   |
| <b>Storage Conditions</b> | Packaging should be protected against rain and snow. Do NOT stack pallets on top of each other.                       |
| <b>Dimensions</b>         | Length 50mm   |
| <b>Specific Advice</b>    | It is recommended that gloves and eye protection be used when handling or adding SikaFiber®-1050 B&BA HF to concrete. |
| <b>Tensile Strength</b>   | 690 N/mm <sup>2</sup> minimum   |

## Recommended Dosage

Fibre dosage will vary depending upon the type of application, concrete mix design and the performance/toughness requirements of each particular project.

For use in concrete toppings in suspended ground floors, oversite systems for structural concrete topping, specifications for single-family self-contained dwelling units and communal areas in blocks of flats in line with applicable building regulations and NHBC requirements, an 11.5kg/m<sup>3</sup> dose of SikaFiber®-1050 B&BA HF has received BBA certification.

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## Dispensing

### Mixing

SikaFiber®-1050 B&BA HF reinforcing is a mechanical, not chemical, process. The addition of SikaFiber®-1050 B&BA HF does not require any additional water or other mix design changes at normal rates. SikaFiber®-1050 B&BA HF is added to the mixer during or after batching the other concrete materials. After the addition of the fibres, the concrete should be mixed for a sufficient time (batch plant: minimum 5 minutes or 70 revolutions) to ensure uniform distribution of the fibres throughout the concrete mix. Mixing times may vary depending on equipment used. Contact your local Sika representative for further assistance.

### Placing

SikaFiber®-1050 B&BA HF reinforced concrete can be pumped, sprayed or placed using conventional equipment.

### Finishing

Conventional techniques and equipment can be used when finishing SikaFiber®-1050 B&BA HF fibre reinforced concrete

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## 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.

## ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

### 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 re-

serves 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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