

## PRODUCT DATA SHEET

# SikaFiber® Novocon® HE1060-HT

### High Tensile Steel fibres for concrete

#### DESCRIPTION

SikaFiber® Novocon® HE1060-HT steel fibres are designed specifically for the reinforcement of concrete, mortars and other cementitious mixes. SikaFiber® Novocon® HE1060-HT is a cold drawn wire fibre, deformed with hooked ends to provide optimum performance within the concrete mix. SikaFiber® Novocon® HE1060-HT steel fibres are European Standard - EN 14889-1:2006 compliant and have been specifically designed to meet or exceed the defined performance requirements.

#### USES

- Ground supported slabs
- Suspended Floors
- Jointless floors
- External roads & pavements
- Precast
- Overlays
- Walls
- Blast-resistant concrete

#### CHARACTERISTICS / ADVANTAGES

- Provides uniform multi-directional concrete reinforcement
- Increases crack resistance, ductility, energy absorption or toughness of concrete
- Improves impact resistance, fatigue endurance and shear strength of concrete
- High tensile strength fibre bridging joints and cracks to provide tighter aggregate interlock resulting in increased load carrying capacity

- Requires less labour to incorporate into concrete than conventional reinforcement
- Offers economical concrete reinforcement solutions with greater project scheduling accuracy
- Ideally suited for hand or vibratory screeds, laser screeds and all conventional finishing equipment

#### APPROVALS / CERTIFICATES

- Complies with European Standard EN 14889-1:2006 Fibres for Concrete Part 1: Group I and carries CE marking
- Conforms to ASTM A820/A820M-04 and ASTM C1116-Type I

#### Reference Documents

- European Standard EN 14889 -1:2006 Fibres for Concrete
- ASTM A820/A820M-04 Standard Specification for Steel Fibers for Fiber Reinforced Concrete.
- ASTM C1116/C1116M Standard Specification for Fiber-Reinforced Concrete.
- ASTM C1399 Standard Test Method for Obtaining Average Residual-Strength of Fiber Reinforced Concrete.
- ASTM C1550 Standard Test Method for Flexural Toughness of Fiber Reinforced Concrete (Using centrally loaded round panel).
- ASTM C1609/C1609M Standard Test Method for Flexural Performance of Fiber-Reinforced Concrete. (Replaces ASTM C1018)
- JCI-SF4 Method of Test for Flexural Strength and Flexural Toughness of Fiber Reinforced Concrete.

#### PRODUCT INFORMATION

<b>Composition</b>	Bright and clean wire (hooked end)
<b>Packaging</b>	SikaFiber® Novocon® HE1060-HT fibres are available in 10 kg bag, 500 kg bulk bag and 1000 kg bulk bag.

<b>Shelf life</b>	36 months from date of production		
<b>Storage conditions</b>	The pallets should be protected against rain and snow. Do NOT stack pallets on top of each other.		
<b>Dimensions</b>	<b>Fibre Length</b>	<b>Equivalent Diameter</b>	<b>Aspect Ratio</b>
	60mm	1.0mm	60

## TECHNICAL INFORMATION

<b>Specific advice</b>	It is recommended that gloves and eye protection be used when handling or adding SikaFiber® Novocon® HE1060-HT steel fibres to concrete.
<b>Tensile strength</b>	1900 N/mm <sup>2</sup>

## APPLICATION INFORMATION

<b>Recommended dosage</b>	The fibre dosage will vary depending on the type of application, concrete mix design and the performance/toughness requirements of each particular project. Typically, steel fibre dosage will be in the range of 15 kg to 40 kg per cubic metre. Sika technical staff can offer advice on dosage requirements once performance requirements have been established by the project designer/engineer.
<b>Compatibility</b>	SikaFiber® Novocon® HE1060-HT steel fibres are compatible with all curing compounds, superplasticisers, water reducers, hardeners and coatings.

## 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.

## ECOLOGY, HEALTH AND SAFETY

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).

## APPLICATION INSTRUCTIONS

### Mixing

SikaFiber® Novocon® HE1060-HT steel fibres can be added during or after the batching of the concrete but should never be added as the first component. Such devices as fibres to the mixer at the ready mix plant. After the fibres have been added, the concrete should be mixed for sufficient time (minimum 5 minutes at full mixing speed) to ensure uniform distribution of the fibres throughout the concrete. The use of mid or high-range water reducing admixtures can be advantageous, but is not essential.

### Placing

SikaFiber® Novocon® HE1060-HT steel fibres can be pumped and placed using conventional equipment. Hand or vibratory screeds and laser screeds can be used with SikaFiber® Novocon® HE1060-HT steel fibres.

### Finishing

Conventional finishing techniques and equipment can be used when finishing SikaFiber® Novocon® HE1060-HT steel fibre concrete. In some cases an extra bull float process is advised and lowering the angle of the power float blades will help to minimize fibre exposure on the surface.

## LOCAL RESTRICTIONS

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

## 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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