

## PRODUCT DATA SHEET

# SikaFiber® Novocon® HE5535 HT

### Hooked end steel fibres

#### DESCRIPTION

SikaFiber® Novocon® HE5535 HT steel fibres are designed specifically for the reinforcement of concrete, mortars and other cementitious mixes. SikaFiber® Novocon® HE5535 HT is a cold drawn wire fibre, deformed with hooked ends to provide optimum performance within the concrete mix. SikaFiber® Novocon® HE5535 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

- Sprayed Concrete
- Precast
- Overlays and screeds
- Road pavements and roundabouts

#### 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
- Reduces construction time
- Safe and easier to use than traditional reinforcement
- Leads to uniform application of shotcrete thickness

#### APPROVALS / CERTIFICATES

- Complies with European Standard EN 14889-1:2006 Fibres for Concrete Part 1: Group I
- Conforms to ASTM A820/A820M-04, Type I cold drawn wire and ASTM C1116-Type I.

#### PRODUCT INFORMATION

<b>Packaging</b>	10 kg bag 1000 kg bulker bag
<b>Appearance and colour</b>	Bright and clean wire
<b>Shelf life</b>	36 months from date of production if stored properly in undamaged, unopened, original sealed packaging.
<b>Storage conditions</b>	Pallets should be protected against rain, snow and humid conditions. Do Not stack pallets on top of each other.
<b>Dimensions</b>	Fiber length : 35 mm

Diameter : 0.55 mm  
Aspect ratio : 64

<b>Concreting guidance</b>	SikaFiber® Novocon® HE5535 HT steel fibres can be pumped and placed using conventional equipment. Hand or vibratory screeds and laser screeds can be used with SikaFiber® Novocon® HE5535 HT steel fibres.
<b>Specific advice</b>	It is recommended that gloves and eye protection be used when handling or adding SikaFiber® Novocon® HE5535 HT steel fibres to concrete.
<b>Tensile strength</b>	1500 MPa
<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 20 kg to 40 kg per cubic meter. Sika technical staff can offer advice on dosage requirements once performance requirements have been established by the project designer/engineer.
<b>Dispensing</b>	SikaFiber® Novocon® HE5535 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 conveyor belts, chutes and dispensers may be used to add 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.

## 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).

## 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

Sika Australia Limited  
ABN 12 001 342 329

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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