

PRODUCT DATA SHEET

Novocon[®] HE-1050

Cold Drawn Steel, Hook End Fibre for Concrete.

PRODUCT DESCRIPTION

Novocon[®] HE-1050 steel fibres are designed specifically for the reinforcement of concrete and mortar. They are specially designed to meet or exceed performance requirements defined in accordance with ASTM standards.

USES

The main uses of Novocon[®] HE-1050 steel fibres are:

- Slabs of industrial floors
- Precast
- Floors without joints

CHARACTERISTICS / ADVANTAGES

- It provides the concrete with a uniform multi-directional reinforcement.
- Increases resistance to cracking, ductility, energy absorption and tenacity of concrete.
- Improves impact resistance, fatigue resistance and resistance to cut of concrete.
- Bypasses joints and cracks to provide more connection strength, resulting in an increase in maximum load capacity, which allows the possible reduction of the concrete section.
- It requires less manpower to incorporate concrete than traditional reinforcement.
- It is an economic solution of reinforcement.
- Ideal for use in conventional finishes or laser floors.

APPROVALS / STANDARDS

Meets ASTM A820 / A 820M-04, Type 1 cold drawn wire. • Tested according to ASTM C III6 / C III6M, ASTM C 1609 / C 1609M and JCI-SF4

PRODUCT INFORMATION

Packaging	Bags of 20 kg and boxes of 25 kg	
Appearance / Colour	Clean and bright wire	
Shelf Life	2 years stored indoors, in a cool and dry place	
Storage Conditions	Novocon [®] HE-1050 should be stored in its original tightly closed container, indoors and dry place.	
Dimensions	Length	50 mm
	Equivalent diameter	1.0 mm
	Aspect ratio	50
Tensile Strength	1150 Mpa	
Recommended Dosage	From 15 to 45 kg / m ³ , depending on the requirements of each project	

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.

LIMITATIONS

The optimal dosage should be determined by tests with the materials and the conditions of the work. The use of gloves and safety glasses is recommended for handling of Novocon® HE-1050 steel fibres.

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).

APPLICATION INSTRUCTIONS

DISPENSING

The Novocon® HE-1050 steel fibres can be added before, during or after the concrete dosing. When the fibres are the first component that is added a test batch should be observed to determine if a homogeneous mixture is obtained. Devices such as conveyor belts and feeders can be used to add fibers to the mixer hopper and / or mixer truck.

After adding the fibres, the concrete should be mixed for a sufficient time (75 rotations at a complete mixing speed) to ensure even distribution of the fibers throughout the concrete. The use of medium or high range water reducers can give an additional advantage.

Concrete containing Novocon® HE-1050 steel fibres can be pumped, skipped or placed directly using conventional equipment. Conventional finishing techniques and equipment can be used with Novocon® HE-1050 steel fibres. In some cases an additional float process is advisable, decreasing the angle of the float, which will help to minimise the exposure of the fibres on the surface.

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 LIMITED

Watchmead
Welwyn Garden City
Hertfordshire, AL7 1BQ
Tel: 01707 394444
Web: www.sika.co.uk
Twitter: @SikaLimited



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