

PRODUCT DATA SHEET

Novocon[®] XR-1038

Undulated steel fibres

DESCRIPTION

Sika Novocon[®] XR-1038 steel fibres are designed specifically for the reinforcement of concrete and shotcrete mixes. Novocon[®] XR-1038 is a cold drawn undulated steel fiber, to provide optimum anchorage within the concrete.

USES

- Commercial and light industrial slabs on ground
- Composite metal decks
- Overlays
- Blast-resistant concrete
- Pavements
- Equipment foundations
- Shotcrete

CHARACTERISTICS / ADVANTAGES

- High tensile strength fiber bridging joints and cracks to provide tighter aggregate interlock resulting in increased load-carrying capacity
- 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
- Requires less labor to incorporate into concrete than conventional reinforcement
- Offers economical concrete reinforcement solutions with greater project scheduling accuracy
- Ideally suited for pumping or shot placement and thin walled precast products.

APPROVALS / CERTIFICATES

Novocon[®] XR-1038 complies with EN 14889-1:2006, ASTM A820/A820M-06 Type 1, cold-drawn wire and ASTM C1116 Type I.

PRODUCT INFORMATION

Packaging	10 kg bag
Appearance and colour	Bright, clean wire
Shelf life	If stored in dry conditions shelf life is 36 months.
Storage conditions	Novocon [®] XR-1038 should be protected against rain, snow and humid conditions.
Dimensions	Length 38 mm Equivalent diameter 1 mm Aspect ratio 38
Concreting guidance	Novocon [®] XR-1038 steel fibres can be pumped, shot or placed using conventional equipment. Novocon [®] XR-1038 reinforced concrete can be fin-

ished by normal finishing techniques.

Specific advice	It is recommended that gloves and eye protection be used when handling or adding Novocon® XR-1038 steel fibres to concrete.
Recommended dosage	The standard application rate for Sika Novocon® XR-1038 fibres is a minimum 15 kg/m ³ . Sika technical staff can offer advice on dosage requirements once performance requirements have been established by the project designer/engineer.
Compatibility	Novocon® XR-1038 fibres are compatible with all concrete admixtures and performance enhancing chemicals.
Dispensing	Sika Novocon® XR-1038 steel fibres can be added during or after the batching of the concrete. Such devices as conveyor belts and dispensers may be used to add fibres to the mixer at the ready mix plant. After the addition of the fibers, the concrete should be mixed for a sufficient time (batch plant: minimum 5 minutes or 70 revolutions) at full mixing speed to ensure uniform distribution of the fibres throughout the concrete mix.

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

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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