

PRODUCT DATA SHEET

SikaFiber® Novocon® XR

STEEL FIBER - TYPE V

PRODUCT DESCRIPTION

SikaFiber® Novocon® XR steel fibers are designed specifically for the reinforcement of concrete. SikaFiber® Novocon® XR is a low carbon, cold drawn continuously deformed steel wire fiber, to provide optimum anchorage within the concrete. Previously SikaFiber Force XR and Novocon XR.

USES

SikaFiber® Novocon® XR can be used in various concrete applications such as:

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

CHARACTERISTICS / ADVANTAGES

SikaFiber® Novocon® XR can be used to improve many attributes of concrete and shotcrete

- 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
- Provides increased ultimate load-bearing capacity
- 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 sprayed concrete
- Leads to uniform thickness of shotcrete applications and no voids that can occur behind wire mesh.
- Easy to use

APPROVALS / STANDARDS

- SikaFiber® Novocon® XR is UL Classified: For use as an alternate or in addition to the welded wire fabric used in Floor-Ceiling D700, D800, D900 Series Designs. Fibers may also be used in Floor-Ceiling Design Nos. G229, G243, G256, G514
- Conforms to ASTM A820 /A 820M, Type V modified cold drawn wire
- Conforms to ASTM C 1116/C 1116M, Type1 fiber reinforced concrete

PRODUCT INFORMATION

Packaging	SikaFiber® Novocon® XR is available in 55 lb (25 kg) polyethylene lined paper bags
Appearance / Color	Fiber Type: Continuously Deformed Steel Fiber Type V Fiber Network: Approximately 1500 fibers/lb (3,300 fibers/kg)

Shelf Life	If stored in dry conditions shelf life is 5 years.
Storage Conditions	SikaFiber® Novocon® XR should be stored in dry warehouse. The pallets should be protected against rain and snow. Do NOT stack pallets on top of each other.
Density	7.85
Dimensions	Length: 1.5" or 2" (38mm or 50mm) Average equivalent diameter: 0.045" (1.14 mm) Aspect ratio: 30 or 40

TECHNICAL INFORMATION

Tensile Strength	> 140 ksi (965 MPa)
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APPLICATION INFORMATION

Recommended Dosage	The dosage of the SikaFiber® Novocon® XR will vary according to the type of application and the performance requirements of the project. Standard recommended dosage rate of SikaFiber® Novocon® XR is between 25 - 67 lbs/cu. yd. (15–40 kg/m³) of concrete. Dosages outside the recommended dosage range can be used to meet project specific requirements. If this is the case please contact your Sika representative for technical support.
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Mixing	SikaFiber® Novocon® XR can be ribbon feed directly to the concrete mixing system after the batching of the ingredients and mixed for 4 to 5 minutes or 70 revolutions. The addition of SikaFiber® Novocon® XR at the recommended dosage rates may decrease the slump; however, additional water should not be added. Only a water reducing or high range water reducing admixture should be used to adjust concrete to the desired workability.
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Application

The addition of SikaFiber® Novocon® XR at the normal recommended dosage rate does not require any mix design or application changes. The fiber concrete can be mixed, sprayed or placed using conventional equipment.

Tooling & Finishing

SikaFiber® Novocon® XR can be used in power/hand troweled concrete, colored and broom finished concrete. Fiber reinforced concrete can be finished by most finishing techniques as indicated in ACI-302. Proper timing and workmanship are important when using a steel fiber to insure the fiber is not elevated at the surface.

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

OTHER RESTRICTIONS

See Legal Disclaimer.

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.

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Product Data Sheet

SikaFiber® Novocon® XR
November 2019, Version 01.01
021408011000000113

SikaFiberNovoconXR-en-US-(11-2019)-1-1.pdf

