



PRODUCT DATA SHEET

SikaFiber® Force XR

Steel Fiber - Type V

PRODUCT DESCRIPTION

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

WHERE TO USE

SikaFiber® Force 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® Force 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 / CERTIFICATES

- SikaFiber® Force 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 - 04, Type I cold drawn wire
- Conforms to ASTM C 1116/C 1116M, Type I fiber reinforced concrete

PRODUCT INFORMATION

Packaging

SikaFiber® Force XR is available in 25 kg (55 lb) polyethylene lined paper bags. 40 bags per pallet.

Shelf Life

If stored in dry conditions shelf life is 5 years.

Storage Conditions	SikaFiber® Force 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.
Appearance / Colour	Fiber Type: Continuously Deformed Steel Fiber Type V Fiber Network: Approximately 1500 fibers/lb
Dimensions	Length: 50 mm (2") Average equivalent diameter: 1 mm (0.04") Aspect ratio: 50
Density	7.85

TECHNICAL INFORMATION

Tensile Strength	> 965 MPa (140 ksi)
-------------------------	---------------------

APPLICATION INFORMATION

Recommended Dosage	The dosage of the SikaFiber® Force XR will vary according to the type of application and the performance requirements of the project. Standard recommended dosage rate of SikaFiber® Force XR is between 25 - 67 lbs/cu. yd. (15–40 kg/m ³) 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.
---------------------------	---

BASIS OF PRODUCT DATA

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

ENVIRONMENT, HEALTH & SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

Sika Canada Inc.
Head Office
601, avenue Delmar
Pointe-Claire, Quebec
H9R 4A9
1-800-933-SIKA
www.sika.ca

Other locations
Boisbriand (Quebec)
Brantford; Cambridge;
Sudbury; Toronto (Ontario)
Edmonton (Alberta)
Surrey (British Columbia)

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

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 recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. 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 or may be downloaded from our website at: www.sika.ca

SikaFiberForceXR-en-CA-(05-2024)-2-1.pdf

Product Data Sheet
SikaFiber® Force XR
May 2024, Version 02.01
021408011000000082

