



## PRODUCT DATA SHEET

# SikaFiber®-800 Stealth

### MACRO SYNTHETIC FIBER

#### PRODUCT DESCRIPTION

SikaFiber®-800 Stealth is macro synthetic reinforcing fiber. SikaFiber®-800 Stealth is 100% virgin copolymer fiber designed to provide a uniform three dimensional reinforcement system in the concrete mix. The fiber is a patent pending. Specifically engineered and manufactured in an ISO 9001 certified manufacturing facility.

#### WHERE TO USE

SikaFiber®-800 Stealth can be successfully used as a safe and simple alternative to wire mesh and rebar. Due to its mechanical properties and its outstanding finishability SikaFiber®-800 Stealth is recommended for use in following applications:

- All Slab on ground
- Exposed concrete
- Overlays
- Composite Metal Decks
- Pavements, Overlays and Bridge Decks
- Mass Concrete
- Precast

#### CHARACTERISTICS / ADVANTAGES

- Self-fibrillating macro fiber to create a high fiber network in the concrete.
- Engineered fiber design to create an outstanding finish and performance in a hard troweled slab on ground.
- Efficient and cost-effective, three-dimensional reinforcement alternative to steel wire mesh, rebar, and steel fibers.
- Sustainable reinforcement solution by reducing embodied carbon through the replacement of convention steel reinforcement with synthetic

- structural fibers.
- Reduction in construction time. No cutting, placing, tying, and chairing required.
- Safer and easier to use than wire mesh and rebar. Increase durability, ductility, and flexural toughness of concrete.
- Reduces plastic shrinkage, settlement, and drying shrinkage cracking in concrete.
- Improves impact, shatter, and abrasion resistance of concrete.
- Geometrically engineered to resist matrix pullout.
- Will not corrode, non-magnetic and highly alkali resistant.
- Pumpable safe reinforcement.

#### APPROVALS / CERTIFICATES

- SikaFiber®-800 Stealth complies with ASTM C 1116/C1116M Type III Fiber Reinforced Concrete and ASTM D7508 / D7508M
- SikaFiber®-800 Stealth is UL/ULc certified and approved for usage in all D700, D800 and D900 series decks as an alternate to welded wire fabric.

## PRODUCT INFORMATION

CSC MasterFormat®	03 05 00
Composition / Manufacturing	Polyolefin
Packaging	SikaFiber®-800 Stealth is packaged in 1.36 kg (3 lb) "toss-in" degradable bags, 8 to a box. The cartons are palletized.
Shelf Life	If stored in dry conditions shelf life is 5 years.
Storage Conditions	SikaFiber®-800 Stealth should be stored in a cool dry warehouse. Protect product from the rain and direct sunlight.
Appearance / Colour	Grey color, crimped self-fibrillating monofilament macro synthetic fiber
Dimensions	Length: 38 mm (1.5")
Density	0.91
Melting Point	162 °C (324 °F)

## TECHNICAL INFORMATION

Resistance to Alkalinity	High
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## APPLICATION INFORMATION

Recommended Dosage	The dosage of the SikaFiber®-800 Stealth will vary according to the type of application and the performance requirements of the project. Standard recommended dosage rate of SikaFiber®-800 Stealth is between 1.8–4.15 kg/m <sup>3</sup> (3–7 lbs/cu. yd.) 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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## 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.

## DISPENSING

The addition of SikaFiber®-800 Stealth 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 prior to the addition of the fibers. After batching all of the concrete ingredients, the SikaFiber®-800 Stealth in a dispersible bag, can be added one bag at a time directly to the concrete mixing system and mixed for 4 to 5 minutes or 70 revolutions.

### Application

The addition of SikaFiber®-800 Stealth at the normal recommended dosage rate does not require any mix design or application changes except to account for slump loss. The fiber concrete can be mixed, sprayed or placed using conventional equipment.

### Tooling & Finishing

SikaFiber®-800 Stealth can be used in power/hand troweled concrete 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 macro synthetic fiber to insure fiber is not elevated at the surface.

## 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](http://www.sika.ca)

### **Sika Canada Inc.**

Head Office  
601, avenue Delmar  
Pointe-Claire, Quebec  
H9R 4A9  
1-800-933-SIKA  
[www.sika.ca](http://www.sika.ca)

### **Other locations**

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

### **Product Data Sheet**

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