



## PRODUCT DATA SHEET

# SikaFiber® Novomesh®-950

Blended Fiber - Macro Synthetic and Micro Synthetic

### PRODUCT DESCRIPTION

SikaFiber® Novomesh®-950 is an engineered blend of macro and micro synthetic reinforcing fibers specifically designed for the reinforcement of concrete. SikaFiber® Novomesh®-950 is 100% virgin copolymer polypropylene macro and micro fibers designed to provide the optimum combination of plastic shrinkage and long term reinforcement within the concrete. Specifically engineered and manufactured in an ISO 9001 certified manufacturing facility. SikaFiber® Novomesh®-950 previously Novomesh 950 or SikaFiber Force 950.

### WHERE TO USE

- Slabs-on-ground
- Self consolidating concrete
- Exterior pavements
- Sidewalks/Driveways
- Non-magnetic applications
- Overlays & toppings
- Drainage channels

### CHARACTERISTICS / ADVANTAGES

- Macro-synthetic/micro-synthetic fiber blend for secondary reinforcement
- Inhibits formation of plastic shrinkage and plastic settlement cracks
- Provides impact, abrasion and shatter resistance
- Provides higher levels of residual strength
- Provides improved durability and reduces permeability
- Control of drying shrinkage and temperature cracking
- Good finishing characteristics
- Three dimensional reinforcement in concrete
- Safer, quicker and easier to use than traditional reinforcement
- Packaged for easy dosing into the concrete mix
- Reducing embodied carbon through the replacement of convention steel reinforcement with synthetic structural fibers.

### APPROVALS / CERTIFICATES

- Complies with European Standard EN 14889-2:2006 Fibres for Concrete Part 2: Class II and 1a. The fiber carries CE marking
- Complies with ASTM C 1116/C 1116M, Type III fiber reinforced concrete
- ISO 9001 Quality Approved Facility

### PRODUCT INFORMATION

CSC MasterFormat®

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#### Packaging

SikaFiber® Novomesh®-950 fibers are available in 2.27 kg degradable bags. The macro monofilament fiber is collated in water soluble wrapped bundles (pucks) within the degradable bag for rapid distribution.

#### Appearance / Colour

Micro Synthetic:

- **Fiber Type:** Monofilament micro synthetic fiber

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- **Fiber Network:** 48,400,000 fibers/kg
- Macro Synthetic:
- **Fiber Type:** Continuously deformed monofilament macro synthetic fiber
  - **Fiber Network:** 41,800 fibers/kg

<b>Shelf Life</b>	If stored in dry conditions shelf life is 5 years.
<b>Storage Conditions</b>	SikaFiber® Novomesh®-950 should be stored in a cool dry warehouse. Protect product from the rain and direct sunlight.
<b>Density</b>	0.91
<b>Dimensions</b>	<p>Micro Fiber:</p> <ul style="list-style-type: none"> <li>▪ <b>Length:</b> Graded 12.7 &amp; 19 mm.</li> <li>▪ <b>Diameter:</b> Graded 0.03 &amp; 0.05 mm.</li> <li>▪ <b>Aspect Ratio:</b> Varies from 250 to 630</li> </ul> <p>Macro Fiber</p> <ul style="list-style-type: none"> <li>▪ <b>Length:</b> 47 mm.</li> <li>▪ <b>Average Equivalent Diameter:</b> 0.81 mm.</li> <li>▪ <b>Aspect Ratio:</b> 58</li> </ul>
<b>Melting Point</b>	164 °C

## TECHNICAL INFORMATION

<b>Resistance to Alkalinity</b>	Excellent
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## APPLICATION INFORMATION

<b>Recommended Dosage</b>	The dosage of the SikaFiber® Novomesh®-950 will vary according to the type of application and the performance requirements of the project. Standard recommended dosage rate of SikaFiber® Novomesh®-950 is between 3–6 kg/m <sup>3</sup> 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
<b>Mixing</b>	<p>SikaFiber® Novomesh®-950 in a dispersible bag can be added 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® Novomesh®-950 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.</p> <p><b>Application</b> The addition of SikaFiber® Novomesh®-950 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.</p> <p><b>Tooling &amp; Finishing</b> SikaFiber® Novomesh®-950 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 macro synthetic fiber to insure fiber is not elevated at the surface.</p>

## 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.

## 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)

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### **Other locations**

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

### **Product Data Sheet**

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