

## 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.

### USES

- 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 / STANDARDS

- 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

#### Packaging

SikaFiber® Novomesh®-950 fibers are available in 5 lb (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 / Color

Micro Synthetic:

- **Fiber Type:** Monofilament micro synthetic fiber
- **Fiber Network:** 22,000,000 fibers/lb

Macro Synthetic:

- **Fiber Type:** Continuously deformed monofilament macro synthetic fiber
- **Fiber Network:** 19,000 fibers/lb

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<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>	Micro Fiber: <ul style="list-style-type: none"><li>▪ <b>Length:</b> Graded 0.5 &amp; 0.75 inches (12.7 &amp; 19 mm).</li><li>▪ <b>Diameter:</b> Graded 0.0012 &amp; 0.002 inches (0.03 &amp; 0.05 mm).</li><li>▪ <b>Aspect Ratio:</b> Varies from 250 to 630</li></ul> Macro Fiber <ul style="list-style-type: none"><li>▪ <b>Length:</b> 1.85" (47 mm).</li><li>▪ <b>Average Equivalent Diameter:</b> 0.03" (0.81 mm).</li><li>▪ <b>Aspect Ratio:</b> 58</li></ul>
<b>Melting Point</b>	328 °F (164 °C)

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## TECHNICAL INFORMATION

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**Resistance to Alkalinity**                      Excellent

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## APPLICATION INFORMATION

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**Recommended Dosage**                      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 5–10 lbs/cu. yd. (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

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**Mixing**    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.

### **Application**

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.

### **Tooling & Finishing**

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.

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## 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.

## 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.

## OTHER RESTRICTIONS

See Legal Disclaimer.

## 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](http://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

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### Product Data Sheet

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