

PRODUCT DATA SHEET

SikaFiber® Novomesh®-950

Blended fiber - Macro synthetic and Micro synthetic

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 was previously known as 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 2.27 kg (5 lb) 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
- **Fiber Network:** ~48 500 000 fibers/kg

Macro Synthetic:

- **Fiber Type:** Continuously deformed monofilament macro synthetic fiber
- **Fiber Network:** ~41 900 fibers/kg

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

TECHNICAL INFORMATION

Resistance to Alkalinity	Excellent
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APPLICATION INFORMATION

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 3–6 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
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Dispensing	<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>Application</p> <p>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>Tooling & Finishing</p> <p>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 ensure fiber is not elevated at the surface.</p>
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BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

ECOLOGY, HEALTH AND 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

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

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 written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. 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.

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Product Data Sheet
SikaFiber® Novomesh®-950
April 2021, Version 02.01
021408021000000107

SikaFiberNovomesh-950-en-MY-(04-2021)-2-1.pdf

