

PRODUCT DATA • SIKA® NOVOMESH® 950



ADVANTAGES OF SIKA NOVOMESH 950 FIBERS:

- Non-magnetic
- Rustproof
- Alkali proof
- Requires no minimum amount of concrete cover
- Always positioned in compliance with codes
- Safe and easier to use than traditional reinforcement
- Saves time
- Packaged for easy dosing into the concrete mix

SIKA NOVOMESH 950 MACRO-SYNTHETIC FIBER BLEND

Sika Novomesh 950 reinforcement system for concrete is a blend of polyolefin high performance macro-monofilament fibers patented sinusoidal deformations and 100% virgin homopolymer micro synthetic graded fibers containing no reprocessed olefin materials. Novomesh 950 is engineered and manufactured in an ISO 9001 certified manufacturing facility for use as concrete reinforcement.

FEATURES & BENEFITS

- 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
- Pumpable reinforcement

PRIMARY APPLICATIONS

Applicable to all types of concrete in the commercial market segment that require a synthetic system for secondary reinforcement. Applications include:

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

COMPLIANCE

- 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 Assured Facility

CHEMICAL AND PHYSICAL PROPERTIES

Micro Polypropylene Component			
Absorption	Nil	Ignition Point	759.2° F (404° C)
Acid & Salt Resistance	High	Melt Point	320° F (160° C)
Alkali Resistance	Alkali Proof	Specific Gravity	0.91
Electrical Conductivity	Low	Thermal Conductivity	Low
Fiber Length	Graded		

Macro-Monofilament Polyolefin Component			
Absorption	Nil	Ignition Point	759.2° F (404° C)
Acid & Salt Resistance	High	Melt Point	320° F (160° C)
Alkali Resistance	Alkali Proof	Specific Gravity	0.91
Electrical Conductivity	Low	Thermal Conductivity	Low
Fiber Length	1.9 in (48 mm)		

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PRODUCT USE

MIXING: The specified dosage per m³ or yd³ should be added to the mixer after batching the other concrete materials. After the addition of the fibers, the concrete should be mixed for sufficient time (batch plant: minimum 5 minutes or 70 revolutions) to ensure uniform distribution of the fibers throughout the concrete mix. Mixing times may vary, please contact Sika Fiber representative.

PLACING: Novomesh 950 fibers can be pumped, sprayed or placed using conventional equipment.

FINISHING: Conventional techniques and equipment can be used when finishing Novomesh 950 fiber concrete.

APPLICATION RATE: The application rate for Novomesh 950 fibers will vary depending on the application, mix design and the toughness requirements of each particular project. The minimum Novomesh 950 fibers dosage is 5 lb per yd³ (2.27 kg per m³) of concrete. For specific performance and dosage recommendations see your local Sika Fiber representative.

COMPATIBILITY

Novomesh 950 fibers are compatible with all concrete admixtures and performance enhancing chemicals.

SAFETY

No special handling is required with Novomesh 950 fibers. Full Safety Data Sheets are available upon request.

PACKAGING

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. Bags are packed into cartons, palletized and shrink-wrapped for protection during shipping. Other packaging options are available. Store materials in a cool dry place. Do not store in direct sunlight.

TECHNICAL SERVICES

Trained Sika Fiber specialists are available worldwide to assist and advise in specifications and field service. Sika Fiber representatives do not engage in the practice of engineering or supervision of projects and are available solely for service and support of our customers.

REFERENCE DOCUMENTS

- ACI 304 Guide for Measuring, Mixing, Transporting and Placing Concrete
- ACI 506 Guide for Shotcrete
- ASTM C1116/C1116M Standard Specification for Fiber-Reinforced Concrete and Shotcrete
- ASTM C 1436 Standard Specification for Materials for Shotcrete
- ASTM C 1550 Standard Test Method for Flexural Toughness of Fiber Reinforced Concrete (Using Centrally Loaded Round Panel)
- ASTM C 1609 /C 1609M Standard Test Method for Flexural Performance of Fiber-Reinforced Concrete (Using Beam With Third-Point Loading)
- Concrete Society (UK) Technical Report 65 Guidance on the use of Macro-synthetic Fibre Reinforced Concrete
- Concrete Society (UK) Technical Report 66 External In-situ Concrete Paving
- EFNARC European Specification for Sprayed Concrete
- European Standard EN 14889-2: 2006 Fibres for Concrete

SPECIFICATION CLAUSE

Fibers for concrete shall be Sika Novomesh 950, an engineered blend of polyolefin high performance macro-monofilament fiber and micro-synthetic polypropylene fibers conforming to ASTM C1116 Type III and manufactured specifically for the reinforcement of concrete.

or

Fibers for concrete shall be Sika Novomesh 950, an engineered blend of polyolefin high performance macro-monofilament fiber and micro-synthetic polypropylene fibers conforming to EN14889-2: 2006 Class II and Class Ia, manufactured specifically for the reinforcement of concrete

The fibers shall be manufactured in an ISO 9001 certified manufacturing facility. Unless otherwise stated, Sika Novomesh 950 fibers shall be mixed at the batch plant, at the recommended rate of ... lbs/yd³ (... kgs/m³), and mixed for sufficient time (minimum 5 minutes) to ensure uniform distribution of the fibers throughout the concrete mix. Fibrous concrete reinforcement shall be manufactured by Sika Fibers, LLC, 4019 Industry Drive, Chattanooga, TN. 37416 USA, tel: 833.236.1255, web site: www.Fibermesh.com.

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