

NOVOMESH® 950

Macro-synthetic fibre blend

Product Description Novomesh® 950 is an engineered blend of polyolefin high performance macro-monofilament fibre and micro-synthetic polypropylene fibres conforming to EN14889-2: 2006 Class II and Class Ia, manufactured specifically for the reinforcement of concrete.

- Uses**
- Engineered and manufactured for use as concrete reinforcement
 - Inhibits formation of both plastic shrinkage and plastic settlement cracks
 - Control of drying shrinkage and temperature cracking
 - Provides impact, abrasion and shatter resistance
 - Reduces water migration in slabs (Bleeding)

- Characteristics / Advantages ***
- Requires no minimum amount of concrete cover
 - Always positioned in compliance with codes
 - Safer and easier to use than traditional reinforcement
 - Saves time and effort installing reinforcement
 - Provides higher levels of residual strength
 - Provides improved durability
 - Good finishing characteristics
 - Pumpable reinforcement
 - Rust and Alkali proof

Tests

Approval / Standards Conforms to the requirements of BS EN 14889-2 2006
ISO 9001 Quality Assured
Complies with ASTM C 1116 Type III 4.1.3.

Product Data

Form

Appearance / Colours Blend of coarse grey and fine white polypropylene filaments

Packaging 2.27kg degradable paper bag

Storage Conditions Store in undamaged containers, in dry conditions at temperatures between +5°C and +25°C. Protect from direct sunlight and frost.



Technical Data

Chemical Base	Polypropylene
Density	0.91kg (at +20°C)
Melt Point	162°C
Absorption	Nil
Fibre Length	Micro Fibres: Multi-Design Graduation Macro Fibres: 45mm, nominal diameter 0.83mm
Electrical Conductivity	Low

System Information

Application Details

Consumption / Dosage	Minimum required dose 2.27kg/m ³ The dosage rate for Novomesh 950 fibres will vary depending on the application, mix design and the toughness requirements of each particular project. For specific performance and dosage recommendations contact your local Sika representative.
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Application Conditions / Limitations

Applicable to all types of concrete in the commercial market segment that require a synthetic system for secondary reinforcement and where steel reinforcement cannot be used. Examples of potential end uses include:

- Slabs on ground, Exterior Pavements and hard-standing or Parking Areas
 - Footpaths, overlays and toppings
 - Runways and other non-magnetic applications
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Compatibility

- Novomesh® 950 is compatible with all commonly used concrete admixtures and performance enhancing chemicals.
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Application Instructions

Mixing	<ul style="list-style-type: none"> ■ Novomesh® 950 is best dispersed when added to a forced action pan mixer or equivalent, prior to discharging the concrete into a truck. Novomesh® 950 degradable bags may, if required be added to the mixer after batching the other concrete materials or during the addition of aggregates and water. It is suggested that you contact your Sika representative before using the fibre to discuss the preferred mixing method.
Application Method / Tools	<ul style="list-style-type: none"> ■ Novomesh® 950 reinforced concrete can be finished with normal concrete finishing techniques. ■ The standard rules of good concreting practice, concerning production as well as placing, are to be followed. Refer to relevant standards. Fresh concrete must be cured properly.
Notes on Application / Limitations	<ul style="list-style-type: none"> ■ When using Novomesh® 950 a suitable mix design must be taken into account and local material sources should be trialed. ■ Support from our Technical Department is recommended
Value Base	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.
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.
Health and Safety Information	For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.
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.
CE Labelling	<p>EN 934-2:2009 is a candidate "harmonized" European Standard and fully takes into account the requirements of the European Commission mandate M128. Products related to concrete, mortar and grout, given under the EU Construction Products Directive (89/106/EEC) and intended to lead to CE marking.</p> <p>CE-labelled as per Annex ZA.3, table ZA.2 conformity 2+ and fulfil the requirements of the given mandate of the EU Construction Products Directive (89/106/CE).</p>



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