

PRODUCT DATA SHEET

SikaFiber® Novomesh® B&BA Macro

BLENDED FIBRE - MACRO SYNTHETIC AND MICRO SYNTHETIC

PRODUCT DESCRIPTION

SikaFiber® Novomesh® B&BA Macro is an engineered blend of macro and micro synthetic reinforcing fibres specifically designed for the reinforcement of concrete. SikaFiber® Novomesh® B&BA Macro is 100% virgin polyolefin macro and micro fibres 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® B&BA Macro previously Novomesh B&BA.

USES

SikaFiber® Novomesh® B&BA Macro can be successfully used as a safe and simple alternative to wire mesh. Due to its mechanical properties SikaFiber® Novomesh® B&BA Macro is recommended for use in following application:

- Compliant with industry regulations for the reinforcement of Block & Beam toppings as required by the NHBC, BBA and others

CHARACTERISTICS / ADVANTAGES

- Macro-synthetic/micro-synthetic fibre 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
- Three dimensional reinforcement in concrete
- Safer, quicker and easier to use than traditional reinforcement
- Packaged for easy dosing into the concrete mix

APPROVALS / STANDARDS

- SikaFiber® Novomesh® B&BA Macro complies with European Standard EN 14889-2 Fibres for Concrete Part 2: Class II and carries the CE marking.
- Complies with ASTM C1116/C1116M, Type III fiber reinforced concrete and therefore ASTM D7508

PRODUCT INFORMATION

Packaging	SikaFiber® Novomesh® B&BA Macro fibres are available in 1.93 kg degradable bags. The macro monofilament fibre is collated in water soluble wrapped bundles (pucks) within the degradable bag for rapid distribution.
Appearance / Colour	<p>Micro Synthetic:</p> <ul style="list-style-type: none"> Fiber Type: Monofilament micro synthetic fibre Fiber Network: 71,800,000 fibres/kg <p>Macro Synthetic:</p> <ul style="list-style-type: none"> Fiber Type: Continuously deformed monofilament macro synthetic fibre Fiber Network: 81,600 fibres/kg
Shelf Life	If stored in dry conditions shelf life is 5 years.
Storage Conditions	SikaFiber® Novomesh® B&BA Macro should be stored in a cool dry warehouse. Protect product from the rain and direct sunlight.

Density	0.91
Dimensions	Micro Fibre: <ul style="list-style-type: none"> ▪ Length: 6 mm ▪ Diameter: 0.057 mm ▪ Aspect Ratio: 105 Macro Fibre <ul style="list-style-type: none"> ▪ Length: 60 mm ▪ Average Equivalent Diameter: 0.56 mm ▪ Aspect Ratio: 107
Melting Point	164 °C (328 °F)

TECHNICAL INFORMATION

Resistance to Alkalinity	Excellent
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APPLICATION INFORMATION

Recommended Dosage	The dosage of the SikaFiber® Novomesh® B&BA Macro will vary according to the type of application and the performance requirements of the project. Standard recommended dosage rate of SikaFiber® Novomesh® B&BA Macro is 3.84 kg (2 Bags)/m ³ of concrete. Please contact your Sika representative for technical support.
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Dispensing	SikaFiber® Novomesh® B&BA Macro in a degradable 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® B&BA Macro 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.
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Application

The addition of SikaFiber® Novomesh® B&BA Macro at the normal recommended dosage rate does not require any mix design or application changes. The fibre concrete can be mixed, sprayed or placed using conventional equipment.

Tooling & Finishing

SikaFiber® Novomesh® B&BA Macro can be used in power/hand troweled concrete, coloured and brush finished concrete. Fibre reinforced concrete can be finished by most finishing techniques. Proper timing and workmanship are important when using a macro synthetic fibre to insure fibre is not elevated at the surface.

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.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) con-

taining 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.

SIKA LIMITED

Watchmead
Welwyn Garden City
Hertfordshire, AL7 1BQ
Tel: 01707 394444
Web: www.sika.co.uk
Twitter: @SikaLimited

SIKA IRELAND LIMITED

Ballymun Industrial Estate
Ballymun
Dublin 11, Ireland
Tel: +353 1 862 0709
Web: www.sika.ie
Twitter: @SikaIreland



Product Data Sheet

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