



PRODUCT DATA SHEET

SikaFiber® Enduro® Mirage

Macro-Synthetic Fiber

PRODUCT DESCRIPTION

SikaFiber® Enduro® Mirage is macro synthetic reinforcing fiber complying with ASTM C 1116, Type III. SikaFiber® Enduro® Mirage is 100% virgin copolymer fiber designed to provide a uniform three dimensional reinforcement system in the concrete mix. Specifically engineered and manufactured in an ISO 9001 certified manufacturing facility. SikaFiber® Enduro® Mirage previously Enduro Mirage or SikaFiber Force MS25.

WHERE TO USE

SikaFiber® Enduro® Mirage can be successfully used as a safe and simple alternative to wire mesh and rebar. Due to its mechanical properties SikaFiber® Enduro® Mirage is recommended for use in following applications:

- Commercial / warehouse slab-on-ground
- Aesthetic finishes / polishing
- Pavements
- Composite metal deck
- Precast

CHARACTERISTICS / ADVANTAGES

- Easy to batch with improved finishing characteristics.
- Efficient and cost-effective, three-dimensional reinforcement alternative to steel wire mesh, rebar, and steel fibers.
- Sustainable reinforcement solution by reducing embodied carbon through the replacement of conventional steel reinforcement with synthetic structural fibers.
- Reduction in construction time. No cutting, placing, tying, and chairing required.
- Safer and easier to use than wire mesh and rebar.
- Increase durability, ductility, and flexural toughness of concrete.
- Reduces plastic shrinkage, settlement, and drying shrinkage cracking in concrete.
- Improves impact and shatter resistance of concrete.
- Geometrically engineered to resist matrix pullout.
- Will not corrode, non-magnetic and highly alkali resistant.
- Pumpable safe reinforcement.

APPROVALS / CERTIFICATES

- SikaFiber® Enduro® Mirage is UL/ULc certified and approved for usage in all D700, D800 and D900 series decks as an alternate to welded wire fabric
- Complies with ASTM C1116 / C1116M Type III Fiber Reinforced Concrete and ASTM D7508 / D7508M
- Complies with European Standard EN 14889-2: 2006 Fibres for Concrete Part 2: Class II

PRODUCT INFORMATION

Packaging

SikaFiber® Enduro® Mirage are packed and placed various sizes of "toss-in" degradable bags. The bags are packed into cartons and palletized.

Shelf Life	If stored in dry conditions shelf life is 5 years.
Storage Conditions	SikaFiber® Enduro® Mirage should be stored in a cool dry warehouse. Protect product from the rain and direct sunlight.
Appearance / Colour	<ul style="list-style-type: none"> ▪ Fiber Type: monofilament macro synthetic fiber ▪ Fiber Network: 30,800 fibers/kg (14,000 fibers/lb)
Dimensions	<p>Length: 54mm (2.1").</p> <p>Equivalent Diameter: 0.92 mm (0.04")</p> <p>Aspect Ratio: 59</p>
Density	0.91
Melting Point	162 °C (324 °F)

TECHNICAL INFORMATION

Resistance to Alkalinity	Excellent
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APPLICATION INFORMATION

Recommended Dosage	The dosage of the SikaFiber® Enduro® Mirage will vary according to the type of application and the performance requirements of the project. Standard recommended dosage rate of SikaFiber® Enduro® Mirage is between 1.8–4.15 kg/m ³ (3–7 lbs/cu. yd.) 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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BASIS OF PRODUCT DATA

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

ENVIRONMENT, HEALTH & 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.

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 recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. 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 or may be downloaded from our website at: www.sika.ca

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Product Data Sheet

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