PRODUCT DATA SHEET

SikaFiber® Enduro®-600

MACRO-SYNTHETIC FIBER

PRODUCT DESCRIPTION

SikaFiber® Enduro®-600 is macro synthetic reinforcing fiber. SikaFiber® Enduro®-600 is 100% virgin copolymer fiber deisgned 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®-600 previously Enduro 600 and SikaFiber Force 600.

WHERE TO USE

SikaFiber® Enduro®-600 can be successfully used as a safe and simple alternative to wire mesh and rebar. Due to its mechanical properties SikaFiber® Enduro®-600 is recommended for use in following applications:

- Sprayed concrete
- Precast
- Mining
- Tunnel linings
- Channel linings
- Slope stabilization
- Slab on ground
- Pavement

CHARACTERISTICS / ADVANTAGES

- Geometrically engineered to resist matrix pullout
- Increases fl exural toughness
- Reduces rebound
- Increases cohesion and reduces segregation
- Increases impact and shatter resistance
- Non-magnetic
- Rustproof
- Chemically inert and alkali proof
- Reduced wear on concrete pumps and hoses
- Safe and easy to handle
- Simplified logistics
- Economical alternative to steel wire mesh and/or steel fibers
- Reducing embodied carbon through the replacement of convention steel reinforcement with synthetic structural fibers.

APPROVALS / CERTIFICATES

- 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®-600 are pucked in 5 x 5 lb.cartons (5 x 2.3 kg) of "toss-in" degradable bags. There are 27 cartons on a pallet.
Appearance / Colour	 Fiber Type: monofilament macro synthetic fiber Fiber Network: 41,200 fibers/kg
Shelf Life	If stored in dry conditions shelf life is 5 years.
Storage Conditions	SikaFiber® Enduro®-600 should be stored in a cool dry warehouse. Protect

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	product from the rain and direct sunlight.
Density	0.91
Dimensions	Length: Available in 50 mm lengths Equivalent Diameter: 0.81mm. Aspect Ratio: 64 (at 50 mm length)
Melting Point	162 °C
TECHNICAL INFORMATION	
Resistance to Alkalinity	High
APPLICATION INFORMATION	N
Recommended Dosage	The dosage of the SikaFiber® Enduro®-600 will vary according to the type of application and the performance requirements of the project. Standard recommended dosage rate of SikaFiber® Enduro®-600 is between 2.3–9 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.
Mixing	SikaFiber® Enduro®-600 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® Enduro®-600 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. Application The addition of SikaFiber® Enduro®-600 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. Tooling & Finishing SikaFiber® Enduro®-600 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

fiber is not elevated at the surface.

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.

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.

LOCAL RESTRICTIONS

and workmanship are important when using a macro synthetic fiber to insure

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.

LEGAL NOTES

The information, and in particular, the recommendations relating to the application and enduse 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

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