

## PRODUCT DATA SHEET

# SikaFiber® Enduro® Prime

### Macro-Synthetic Fiber

#### PRODUCT DESCRIPTION

SikaFiber® Enduro® Prime is macro synthetic reinforcing fiber complying with ASTM C1116, Type III. SikaFiber® Enduro® Prime 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® Prime previously Enduro Prime.

#### USES

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

- Industrial slab-on-ground
- Extending joints
- Pavements
- Bridge decks
- Overlays
- Composite metal deck
- Precast

#### CHARACTERISTICS / ADVANTAGES

- Widely DOT approved - contact regional sale manager for state-by-state acceptance.
- Geometrically engineered to resist matrix pullout.
- Cost-effective, three-dimensional reinforcement alternative to secondary wire mesh or rebar, and steel fibers.
- Can be utilized to reduce rebar or wire mesh.
- Increased safety on job site; remove lifting of reinforcement, bending to tie, and tripping hazard.
- Reduction in construction time. No cutting, placing,

- tying, and chairing required
- Reducing embodied carbon through the replacement of convention steel reinforcement with synthetic structural fibers.
- Increase ductility, flexural toughness and post first crack reinforcement of concrete.
- Increased durability due to high chemical resistance and corrosion free.
- Inhibits plastic shrinkage and settlement cracking.
- Improves impact, shatter, and abrasion resistance of concrete.
- Reduces permeability.
- Pumpable reinforcement with reduced wear on pumps and hoses.
- Toss in degradable bags make it easy to batch.

#### ENVIRONMENTAL INFORMATION

Lowers carbon footprint through the removal of rebar or wire mesh reinforcing which has a higher GWP.

A Type III Product-Specific Environmental Product Declaration (EPD) and a Manufacturer Inventory are available for SikaFiber® Enduro® Prime. For further information, please visit:

<https://usa.sika.com/en/sustainability.html>

#### APPROVALS / STANDARDS

- SikaFiber® Enduro® Prime 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 C 1116/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

<b>Fiber Volume Content</b>	37,000 fibers/lb (81,500 fibers/kg)
<b>Packaging</b>	SikaFiber® Enduro® Prime are pucked and placed various sizes of "toss-in" degradable bags. The bags are packed into cartons and palletized.
<b>Shelf Life</b>	If stored in dry conditions shelf life is 5 years.
<b>Storage Conditions</b>	SikaFiber® Enduro® Prime should be stored in a cool dry warehouse. Protect product from the rain and direct sunlight.
<b>Fiber Type</b>	Monofilament macro synthetic fiber
<b>Dimensions</b>	<b>Length:</b> Available in 2.17 or 2.4" (55 or 60 mm) lengths <b>Equivalent Diameter:</b> 0.02" (0.56mm). <b>Aspect Ratio:</b> 98 (at 55 mm length) or 107 (at 60 mm length)
<b>Density</b>	0.91
<b>Melting Point</b>	324 °F (162 °C)

## TECHNICAL INFORMATION

<b>Resistance to Alkalinity</b>	Excellent
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## APPLICATION INFORMATION

<b>Recommended Dosage</b>	The dosage of the SikaFiber® Enduro® Prime will vary according to the type of application and the performance requirements of the project. Standard recommended dosage rate of SikaFiber® Enduro® Prime is between 3–7 lbs/cu. yd. (1.8–4.15 kg/m <sup>3</sup> ) 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

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

## ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

## OTHER RESTRICTIONS

See Legal Disclaimer.

## LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at [usa.sika.com](http://usa.sika.com) or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product

Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. **NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.**

Sale of SIKA products are subject to the Terms and Conditions of Sale which are available at <https://usa.sika.com/en/group/SikaCorp/termsandconditions.html> or by calling 1-800-933-7452.

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