PRODUCT DATA SHEET

SikaFiber® Enduro® Prime

MACRO-SYNTHETIC FIBER

PRODUCT DESCRIPTION

SikaFiber® Enduro® Prime is macro synthetic reinforcing fiber. 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
- Precast
- Pavement
- Overlays
- Composite Metal Deck

CHARACTERISTICS / ADVANTAGES

- Geometrically engineered to resist matrix pullout
- Superior increase in flexural toughness
- Increases cohesion and reduces segregation
- Increases impact and shatter resistance
- Reduced wear on concrete pumps and hoses
- Safe and easy to handle
- Simplified logistics
- Optimized balance between high aspect ratio, performance and finishing
- Economical alternative to steel wire mesh and/or steel fibers

APPROVALS / STANDARDS

- Complies with the ICC (International Code Council) AC383 and carries the ICC ES Evaluation Report ESR-4282
- 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
- Complies with European Standard EN 14889-2: 2006 Fibres for Concrete Part 2: Class II

PRODUCT INFORMATION

| Packaging | SikaFiber® Enduro® Prime are pucked and placed various sizes of "toss-in" degradable bags. The bags are packed into cartons and palletized. |
| Appearance / Color | **Fiber Type:** monofilament macro synthetic fiber  
**Fiber Network:** 37,000 fibers/lb (81,500 fibers/kg) |
| Shelf Life | If stored in dry conditions shelf life is 5 years. |
| Storage Conditions | SikaFiber® Enduro® Prime should be stored in a cool dry warehouse. Protect product from the rain and direct sunlight. |
Density 0.91

Dimensions

<table>
<thead>
<tr>
<th>Length: Available in 2.17 or 2.4&quot; (55 or 60 mm) lengths</th>
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<tbody>
<tr>
<td>Equivalent Diameter: 0.02&quot; (0.56mm).</td>
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<tr>
<td>Aspect Ratio: 98 (at 55 mm length) or 107 (at 60 mm length)</td>
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Melting Point 324 °F (162 °C)

TECHNICAL INFORMATION

Resistance to Alkalinity Excellent

APPLICATION INFORMATION

Recommended Dosage

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/m³) 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® Prime 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® Prime 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® Prime 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® Prime 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 and workmanship are important when using a macro synthetic fiber to insure fiber is not elevated at the surface.

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.

OTHER RESTRICTIONS

See Legal Disclaimer.

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.
LEGAL DISCLAIMER

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

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