

SikaFiber® Force 950

Macro-Micro Synthetic Blend Fiber

Description SikaFiber® Force 950 is a blend of polypropylene/polyethylene high performance macro-monofilament fibers with a 100% virgin polypropylene micro-synthetic fibers. SikaFiber® Force 950 is designed to provide a high performing reinforcement system for concrete. SikaFiber® Force 950 is specifically engineered and manufactured to reduce plastic and hardened concrete shrinkage, increase fatigue resistance and concrete toughness, and improve impact strength. SikaFiber® Force 950 meets the material specifications of ASTM C-1116, Type III fiber. SikaFiber® Force 950 is engineered and manufactured for use as concrete reinforcement at a minimum addition rate of 6.6 lbs. per cu. yd. (3 kg/m³).

Applications SikaFiber® Force 950 macro-synthetic fibers can significantly enhance the performance of all types of concrete and cement based building products. SikaFiber® Force 950 is excellent for use in industrial floors, bridge decks, loading docks, precast products like septic tanks, burial vaults, manholes, and architectural panels, and shotcrete applications.

- Benefits**
- Provides multi-dimensional reinforcement.
 - Reduces and/or replaces non-structural steel reinforcement - steel fibers or welded wire fabric reinforcement.
 - Improves concrete toughness, fatigue resistance and long term durability.
 - Increases impact, shatter and abrasion resistance of concrete.
 - Reduces segregation, plastic settlement and plastic and hardened shrinkage cracking.
 - Saves time and money when compared to alternate reinforcing systems.
 - Easy to use and work with.

Typical Data

Coarse Macro-fiber Component:

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|---------------------------|------------------|
| Fiber length: | 1.9" (48 mm) |
| Specific gravity : | 0.91 |
| E Modulus: | 580 ksi (4 GPa) |
| Tensile Strength: | 65 ksi (448 MPa) |
| Melt point: | 328°F (164°C) |
| Absorption: | Nil |

Fine Micro-fiber Component:

| | |
|--------------------------|---------------|
| Fiber length: | Graded |
| Specific gravity: | 0.91 |
| Melt point: | 324°F (162°C) |
| Absorption: | Nil |

RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

Concrete



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How to Use

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|--------------------------------|---|
| Dosage | Standard recommended dosage rate of SikaFiber® Force 950 is 6.6 lb./cu. yd. (3 kg/m ³) of concrete, it can be increased up to 13.2 lb./cu. yd (6 kg/m ³), to meet project specific requirements. |
| Mixing | SikaFiber® Force 950 can be added directly to the concrete mixing system, during or after the batching of the ingredients and mixed at high speed for four to five minutes. Additional mixing does not adversely affect the distribution or overall performance of SikaFiber® Force 950. The addition of SikaFiber® Force 950 at the recommended dosage rates to a given mix will decrease the slump; however, additional water should not be added. Only a water reducing admixture should be used to adjust concrete to the desired workability required for placement. |
| Application | The addition of SikaFiber® Force 950 at the normal recommended dosage rate does not require any mix design or application changes. A mid range or high range water reducer is recommended in concrete placements where improved workability and finishability are desired. |
| Tooling & Finishing | Fiber reinforced concrete can be finished by most finishing techniques. SikaFiber® Force 950 does not affect the finishing characteristics of concrete. SikaFiber® Force 950 can be used in power/hand troweled concrete, colored and broom finished concrete. |
| Limitations | Guidelines: SikaFiber® Force 950 should not be used to replace structural, load-bearing reinforcement. SikaFiber® Force 950 fibers should not be used as a means of using thinner concrete sections than original design. SikaFiber® Force 950 should not be used to increase joint spacing past those dimensions suggested by PCA and ACI industry standard guidelines. |
| Packaging | SikaFiber® Force 950 is available in 6.6 lb. (3 kg) bags. The macro-monofilament component of the fiber is collated in small bundles within the degradable bag for rapid distribution. |
| Storage and Shelf Life | SikaFiber® Force 950 should be stored in a dry warehouse. Protect product from the rain. If stored in dry conditions shelf life is 5 years. |

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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Sika Corporation
201 Polito Avenue
Lyndhurst, NJ 07071
Phone: (201) 933-8800
Fax: (201) 933-6225
usa.sika.com

Sika Canada Inc.
601, Delmar Avenue
Pointe-Claire, QC H9R 4A9
Phone: (514) 697-2610
Fax: (514) 697-3087
can.sika.com

Regional Information and Sales Centers. For the location of your nearest Sika representative, contact your regional center.

U.S. :
Northeast: Fairless Hills, PA, Phone: (215) 295-6600
South East: Conyers, GA, Phone: (770) 760-1300
Western Region: Santa Fe Springs, CA, Phone: (972) 289-6480

North Central: Ottawa, IL 61350, Phone: (815) 431-1080
South Central: Mesquite, TX, Phone: (972) 289-6480

Canada: **Ontario:** Mississauga, ON, Phone: (905) 795-3177

Alberta: Edmonton, AB, Phone: (780) 486-6111

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