BUILDING TRUST

PRODUCT DATA SHEET

Sika® Fibercast®-500

MICRO-SYNTHETIC FIBER

PRODUCT DESCRIPTION

Sika® Fibercast®-500, micro-reinforcement system for concrete is100 percent virgin homopolymer polypropylene fibers. Specifically engineered and manufactured in an ISO 9001 certified manufacturing facility for use as reinforcement for concrete applications. Sika® Fibercast®-500 was previously Fibercast 500 or SikaFiber PPF-500.

USES

Sika® Fibercast®-500 act mechanically by supporting the aggregate within the concrete with multi-dimensional fiber network and develops a uniform bleed system. The fiber does not affect the curing process chemically and does not absorb water. Typical applications include:

- Precast
- Hazardous material storage
- Septic tanks
- Stucco
- Agricultural products
- Tanks and storage
- Marine products
- Walls
- Shotcrete

CHARACTERISTICS / ADVANTAGES

- Provides increased green (early age) strength
- Increases cohesion and reduces segregation
- Inhibits and controls the formation of intrinsic cracking in concrete
- Reduces plastic shrinkage and settlement cracking
- Reinforces against the effect of shattering forces
- Reinforces against abrasion
- Helps reduce cracking due to freeze / thaw
- Inhibits water migration
- Permits thicker layer per passing of sprayed concrete
- Reduces rebound and material waste in sprayed concrete

ENVIRONMENTAL INFORMATION

A Type III Product-Specific Environmental Product Declaration (EPD) and a Manufacturer Inventory are available for Sika® Fibercast®-500. For further information, please visit:
https://usa.sika.com/en/sustainability.html

APPROVALS / STANDARDS

- Complies with European Standard EN 14889-2:2006 Fibres for Concrete Part 2: Class 1b and carries CE marking
- Complies with ASTM C 1116/C 1116M,Type III fiber reinforced concrete

PRODUCT INFORMATION

Packaging	Sika® Fibercast®-500 fibers are available in a variety of packaging options. The bags are packed into cartons and palletized.
Shelf Life	When stored in dry conditions shelf life is 5 years

Storage Conditions	Sika® Fibercast®-500 should be stored in a dry warehouse. Protect product from the rain.
Density	0.91
Dimensions	▪ **Length:** 0.25, 0.5, 0.75, 1.5, or 2 inches (6, 12, 19, 38, or 52 mm). ▪ **Diameter:** Range of diameters available: (0.05, 0.24, 0.40 mm) ▪ **Aspect Ratio:** Varies
Melting Point	324 °F (162 °C)
Resistance to Alkalinity	Excellent

APPLICATION INFORMATION

Recommended Dosage	The dosage of the Sika® Fibercast®-500 will vary according to the type of application and performance requirements. Standard recommended dosage ratio of Sika® Fibercast®-500 is between 1.5 to 3 lbs/cu yd (0.9 to 1.8 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.

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 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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