

## PRODUCT DATA SHEET

# Sika® Fibermesh®-665

### Macro-Synthetic Fiber

#### PRODUCT DESCRIPTION

Sika® Fibermesh®-665 is macro synthetic reinforcing fiber. Sika® Fibermesh®-665 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. Sika® Fibermesh®-665 previously Fibermesh 665.

#### USES

Sika® Fibermesh®-665 can be successfully used as a safe and simple alternative to wire mesh and rebar. Due to its mechanical properties Sika® Fibermesh®-665 is recommended for use in following applications:

- Sprayed Concrete / Shotcrete
- Slope stabilization

#### CHARACTERISTICS / ADVANTAGES

- High performance macro-synthetic fiber for shotcrete reinforcement used as an alternative to traditional steel wire fabric
- Provides impact, abrasion and shatter resistance
- Greater surface area provides increased flexural toughness (residual strength)
- Provides improved durability
- Control of drying shrinkage and temperature cracking
- Pumpable reinforcement with reduced wear on pumps and hoses
- Reducing embodied carbon through the replacement of convention steel reinforcement with synthetic structural fibers.

#### APPROVALS / STANDARDS

- Complies with European Standard EN 14889-2 Fibres for Concrete Part 2: Class II and carries CE marking
- Complies with ASTM C 1116/C 1116M, Type III fiber reinforced concrete and ASTM D7508/D7508M

#### PRODUCT INFORMATION

<b>Packaging</b>	Sika® Fibermesh®-665 fibers are available in 8 or 10 kg cartons. Other packaging options are also available.
<b>Appearance / Color</b>	<ul style="list-style-type: none"> <li>▪ <b>Fiber Type:</b> monofilament macro synthetic fiber</li> <li>▪ <b>Fiber Network:</b> 43,000 fibers/lb (94,800 fibers/kg)</li> </ul>
<b>Shelf Life</b>	If stored in dry conditions shelf life is 5 years.
<b>Storage Conditions</b>	Sika® Fibermesh®-665 should be stored in a cool dry warehouse. Protect product from the rain and direct sunlight.
<b>Density</b>	0.91

<b>Dimensions</b>	<b>Length:</b> 2.56" (65mm). <b>Equivalent Diameter:</b> Graded 0.018 & 0.019" (0.46 & 0.48mm). <b>Aspect Ratio:</b> Varies from 135 to 141
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<b>Melting Point</b>	324 °F (162 °C)
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## TECHNICAL INFORMATION

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

<b>Recommended Dosage</b>	The dosage of the Sika® Fibermesh®-665 will vary according to the type of application and the performance requirements of the project. Standard recommended minimum dosage rate of Sika® Fibermesh®-665 is 5 lbs/cu. yd. (3 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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<b>Mixing</b>	Sika® Fibermesh®-665 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 Sika® Fibermesh®-665 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. <b>Application</b> The addition of Sika® Fibermesh®-665 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.
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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.

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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.

**Sika Corporation**

201 Polito Avenue  
Lyndhurst, NJ 07071  
Phone: +1-800-933-7452  
Fax: +1-201-933-6225  
[usa.sika.com](http://usa.sika.com)

**Sika Mexicana S.A. de C.V.**

Carretera Libre Celaya Km. 8.5  
Fracc. Industrial Balvanera  
Corregidora, Queretaro  
C.P. 76920  
Phone: 52 442 2385800  
Fax: 52 442 2250537



**Product Data Sheet**

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