



PRODUCT DATA SHEET

Edition 11.2019/v1
CSC Master Format™ 03 05 00

SikaFiber® Force MS-25

MACRO-SYNTHETIC REINFORCING FIBRE

Description	SikaFiber® Force MS-25 is a crimped high-performance macro-synthetic fibre specifically designed to increase flexural strength and as an economical alternative to steel wire mesh and/or steel fibres.																												
Where to Use	SikaFiber® Force MS-25 fibres are designed for use as a safe and simple alternative to traditional steel wire mesh in concrete. Typical applications include: Industrial floors, bridge decks, loading docks, and precast products, such as septic tanks, burial vaults, manholes and architectural panels.																												
Advantages	<ul style="list-style-type: none">▪ Easy to batch, pump and finish▪ Provides multi-dimensional reinforcement▪ Geometrically engineered and crimped to resist matrix pullout▪ Reduces and/or replaces non-structural steel reinforcement, steel fibers or welded wire fabric reinforcement▪ Increases cohesion and reduces segregation▪ Increases flexural strength of concrete▪ Improves concrete toughness, fatigue resistance and long-term durability▪ Increases impact-, shatter and abrasion-resistance of concrete▪ Chemically-inert and alkali-proof▪ Pumpable reinforcement with reduced wear on pumps and hoses▪ Saves time and money when compared to alternate reinforcing systems																												
Standards	Complies with ASTM C1116/C1116M Type III Fibre-Reinforced Concrete.																												
	<table><tr><td colspan="2">Technical Data</td></tr><tr><td>Packaging</td><td>Fibres are collated in degradable, water-soluble wrapped bundles (pucks) and packaged as follows: 6 x 1.8 kg bags/box Other package formats may be available upon request. Contact Sika Canada for additional information.</td></tr><tr><td>Fibre Type</td><td>Macro-monofilament polyolefin fibre</td></tr><tr><td>Fibre Length</td><td>54 mm</td></tr><tr><td>Shelf Life and Storage</td><td>5 years if stored in original and unopened packaging and in dry conditions. Protect product from the moisture and rain.</td></tr><tr><td colspan="2">Properties at 23 °C (73 °F) and 50 % R.H.</td></tr><tr><td>Specific Gravity</td><td>0.91</td></tr><tr><td>Thermal Conductivity</td><td>Low</td></tr><tr><td>Tensile Strength</td><td>520 MPa (average)</td></tr><tr><td>Melt Point</td><td>160 °C</td></tr><tr><td>Alkali Resistance</td><td>Alkali-proof</td></tr><tr><td>Acid & Salt Resistance</td><td>High</td></tr><tr><td colspan="2"><i>Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.</i></td></tr></table>			Technical Data		Packaging	Fibres are collated in degradable, water-soluble wrapped bundles (pucks) and packaged as follows: 6 x 1.8 kg bags/box Other package formats may be available upon request. Contact Sika Canada for additional information.	Fibre Type	Macro-monofilament polyolefin fibre	Fibre Length	54 mm	Shelf Life and Storage	5 years if stored in original and unopened packaging and in dry conditions. Protect product from the moisture and rain.	Properties at 23 °C (73 °F) and 50 % R.H.		Specific Gravity	0.91	Thermal Conductivity	Low	Tensile Strength	520 MPa (average)	Melt Point	160 °C	Alkali Resistance	Alkali-proof	Acid & Salt Resistance	High	<i>Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.</i>	
Technical Data																													
Packaging	Fibres are collated in degradable, water-soluble wrapped bundles (pucks) and packaged as follows: 6 x 1.8 kg bags/box Other package formats may be available upon request. Contact Sika Canada for additional information.																												
Fibre Type	Macro-monofilament polyolefin fibre																												
Fibre Length	54 mm																												
Shelf Life and Storage	5 years if stored in original and unopened packaging and in dry conditions. Protect product from the moisture and rain.																												
Properties at 23 °C (73 °F) and 50 % R.H.																													
Specific Gravity	0.91																												
Thermal Conductivity	Low																												
Tensile Strength	520 MPa (average)																												
Melt Point	160 °C																												
Alkali Resistance	Alkali-proof																												
Acid & Salt Resistance	High																												
<i>Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.</i>																													
HOW TO USE																													
Dosage	The application rate for SikaFiber® Force MS-25 fibres will vary depending on the application, mix design and the toughness requirements of each project. However, the minimum dosage will be 1.8 kg/m³ of concrete.																												
Mixing	The specified dosage of SikaFiber® Force MS-25 per m³ should be added to the mixer after batching the other concrete materials. After the addition of the fibres, the concrete should be mixed for sufficient time, a minimum of five (5) minutes (or 70 revolutions in batch plant) at full mixing speed to ensure uniform distribution of the fibres throughout the concrete mix. Mixing times may vary; for additional information, contact your local Sika Technical Sales Representative.																												
Placing	Concrete containing SikaFiber® Force MS-25 fibres can be pumped, sprayed or placed using conventional equipment.																												
Finishing	Concrete containing SikaFiber® Force MS-25 fibres can be finished using conventional techniques and equipment.																												
Clean Up	Use personal protective equipment (chemical resistant goggles/gloves/clothing).																												

**Health and Safety
Information**

For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent SAFETY DATA SHEET containing physical, ecological, toxicological and other safety-related data.

KEEP OUT OF REACH OF CHILDREN
FOR INDUSTRIAL USE ONLY

The Information, and in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions, within their shelflife. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request or may be downloaded from our website at: www.sika.ca

SIKA CANADA INC.**Head Office**

601, avenue Delmar
Pointe-Claire, Quebec
H9R 4A9

Other locations

Toronto & Cambridge
Edmonton
Vancouver

1-800-933-SIKA
www.sika.ca

Certified ISO 9001 (CERT-0102780)
Certified ISO 14001 (CERT-0102791)

