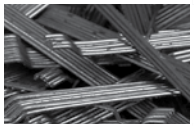
SikaFiber®
Product Selection Guide

Advanced Solutions for Fiber Reinforced Concrete

BUILDING TRUST

REINFORCING THE CONCRETE THAT BUILDS THE FUTURE

SikaFiber® PRODUCT OFFERING

	MICRO	Sika® Fibercast® Sika® Fibermesh®
	MACRO	Sika® Fibermesh® SikaFiber® Stealth SikaFiber® Enduro® SikaFiber® Force
	BLENDED	SikaFiber® Novomesh®
	STEEL	SikaFiber® Novocon® SikaFiber® UHPC

KEY PERFORMANCE MACRO & STEEL FIBER

- Reduced incidence of plastic and drying shrinkage cracking
- Improved load capacity and ductility
- Properly positioned integral reinforcement
- Improved cohesion in fresh concrete
- Enhanced durability
- Increased flexural and shear strength
- Ability to extend joints
- 3-dimensional corrosion resistant reinforcement

BENEFITS OF FRC

Fibers can eliminate the need for secondary reinforcement which results in:

	Cost savings by replacing expensive traditional slab reinforcement
	Improved jobsite safety
	Lower eCO2/GWP of concrete mix
	Improved construction schedule

SikaFiber® SUPPORT

EXPERT Fiber Team - Reinforcing value, reliability, concrete performance and your reputation. Find out how our dedicated team of experts and SikaFiber® can improve your next project. Contact us today # 1.833.236.1255 or at usa.sika.com.

Project Calculations Needed? We can assist with calculating the required dosage rates to fully or partially replace the steel WWF or rebar in your project, even from the initial design phase given the specific load expectations and structure use. Calculations are derived from standard practices and ACI methodologies.

FIBER SELECTION - QUICK GUIDE

STATE OF CONCRETE OR MORTAR	EFFECT / PROPERTY IMPROVEMENT	RECOMMENDED FIBER TYPE
Fresh	Reduce Rebound of Shotcrete	Micro-PP Fibers
Fresh	Homogeneity Improvement	Micro-PP Fibers
0 to 2 Days	Plastic Shrinkage Cracking	Micro and Macro-PP Fibers
28 days hardening or more	Protection Against Explosive Spalling	Micro-PP Fibers
1–28 days	Reduction of Cracks Induced by Restraint or Temperature	Macro-PP & Steel Fibers
28 days hardening or more	Transfer of External Forces	Macro-PP & Steel Fibers

PP = Polypropylene Synthetic Fibers

CHARACTERISTICS, BENEFITS & APPLICATION GUIDES

SikaFiber® CHARACTERISTICS GUIDE

Type	Products	Length, Inches	Dosage, lbs/ cu.yd	Standards	Description	Sustainability
NYLON	Sika® Fibermesh® FN	0.25, 0.75	1	ASTM C1116 - Type III	Micro Monofilament Nylon Fiber, Degradable Bags	
MICRO	Sika® Fibercast®-500	Graded**	1.5	ASTM D7508	Polypropylene Monofilament or Fibrillated Degradable Bags	EPD & MIR
	Sika® Fibermesh® HP	Graded	0.5	ASTM D7508	Polypropylene Monofilament, Fine Denier, Degradable Bags	EPD & MIR
	Sika® Fibermesh®-150	Graded**	1	ASTM D7508	Polypropylene Monofilament, Degradable Bags	EPD & MIR
	Sika® Fibermesh®-300	Graded**	1.5	ASTM D7508	Polypropylene Fibrillated, Degradable Bags	EPD & MIR
	Sika® Fibermesh®-150F	0.25 or 0.5	1 - 3.4	ASTM D7508	Polypropylene Monofilament, Degradable Bags	EPD & MIR
	SikaFiber®-400 FF	0.75	0.75	ASTM D7508	Polypropylene Fibrillated, Degradable Bags	
MACRO	Sika® Fibermesh®-650	Graded**	3 - 11	ASTM D7508	Structural Polypropylene, In Pucks or Loose	EPD & MIR
	SikaFiber®-800 Stealth	1.5	3 - 9	ASTM D7508	Structural, Crimped, Polypropylene, In Pucks	EPD & MIR
	SikaFiber®-820 Stealth TW	1.5, 2.0	3 - 9	ASTM D7508	Structural, Crimped, Polypropylene, Small Twisted Bundles	
	SikaFiber® Enduro® Prime	2.2, 2.4	3 - 7	ASTM D7508	Structural, Crimped, Polypropylene, In Pucks	EPD & MIR
	SikaFiber® Force-48 or 54	1.9, 2.1	5 - 13	ASTM D7508	Structural Embossed Polypropylene, In Pucks	EPD & MIR
	Sika® Fibermesh®-650S	Graded**	8 - 15	ASTM D7508	Structural, Polypropylene, In Pucks	EPD & MIR
STEEL	SikaFiber® Novocon® CS-1000	1	25 - 75	ASTM A820 - Type II	Steel Fiber, 55 lbs Boxes	
	SikaFiber® Novocon® HE-4550	2	25 - 67	ASTM A820 - Type I	Steel, Hooked End, 44 lb Paper Bags	
	SikaFiber® Novocon® CHE-6560	2.4	15 - 67	ASTM A820 - Type I	Steel, Collated Hooked End, 44 lb Paper Bags	
	SikaFiber® Novocon® CHE-8060	2.4	25 - 67	ASTM A820 - Type I	Steel, Collated Hooked End, 44 lb Paper Bags	
	SikaFiber® Novocon® CHE-6535	1.4	35 - 80	ASTM A820 - Type I	Steel, Collated Hooked End, 44 lb Paper Bags	
	SikaFiber®-6513 UHPC	1/2	*	ASTM A820 - Type I	UHPC Steel Fiber, 44 lb Paper Bags	
BLEND	SikaFiber® Novomesh®-950 (Cal 51)	1.9	5 - 10	ASTM D7508	Macro-Micro Synthetic Blend	EPD & MIR

* Dosage based on application

** Single lengths also available, please ask your SikaFiber® representative

EPD - Environmental Product Declaration / MIR - Material Ingredient Report

CHARACTERISTICS, BENEFITS & APPLICATION GUIDES

SikaFiber® PERFORMANCE BENEFITS GUIDE

Type	Products	Early Age Benefits			Long Term Benefits								
		Reduces Plastic Shrinkage Cracking	Reduces Plastic Settlement Cracking	Improves Cohesion	Reduces Explosive Spalling During Fire	Provides Post First Crack Reinforcement	Provides Shatter & Impact Resistance	Provides Restrained Shrinkage Crack Control	Flexural Toughness for Shotcrete	Greater Fatigue Resistance	Greater Ductility	Reduces Water Penetration	Strain Hardening
NYLON	Sika® Fibermesh® FN	•	•	•			•					•	
MICRO	Sika® Fibermesh® HP	•	•	•			•					•	
	Sika® Fibercast®-500	•	•	•			•					•	
	Sika Fibermesh®-150	•	•	•			•					•	
	Sika® Fibermesh®-300	•	•	•		•	•			•		•	
	Sika® Fibermesh®-150F	•	•	•	•		•					•	
	SikaFiber®-400 FF	•	•	•		•	•			•		•	
MACRO	Sika® Fibermesh®-650	•	•	•		•	•	•		•	•	•	
	SikaFiber®-800 Stealth	•	•	•		•	•	•		•	•	•	
	SikaFiber®-820 Stealth TW	•	•	•		•	•	•	•	•	•	•	
	SikaFiber® Enduro® Prime	•	•	•		•	•	•		•	•	•	
	SikaFiber® Force-48 or 54	•	•	•		•	•	•	•	•	•	•	
	Sika® Fibermesh®-650S	•	•	•		•	•	•	•	•	•	•	
STEEL	SikaFiber® Novocon® CS-1000			•		•	•	•		•	•		
	SikaFiber® Novocon® HE-4550					•	•	•		•	•		
	SikaFiber® Novocon® CHE-6560					•	•	•		•	•		
	SikaFiber® Novocon® CHE-8060					•	•	•		•	•		
	SikaFiber® Novocon® CHE-6535					•	•	•	•	•	•		
	SikaFiber®-6513 UHPC			•		•	•	•		•	•		•
BLEND	SikaFiber® Novomesh®-950	•	•	•		•	•	•		•	•	•	

CHARACTERISTICS, BENEFITS & APPLICATION GUIDES

SikaFiber® APPLICATION GUIDE

		Slabs						Pavements			Composite Metal Deck	Precast				Shotcrete & Underground		UHPC
		Residential	Commercial	Industrial	Heavy Industrial	Extended Joint	Overlays	Parking Areas & Roadways	Overlays	Sidewalks		Tunnel Segments	Vaults, Tanks & Containers	Manhole	Wall & Tilt-Up	Tunneling & Mining	Slope Stabilization	
NYLON	Sika® Fibermesh® FN	•		•	•				•									
MICRO	Sika® Fibercast®-500												•	•		•	•	
	Sika® Fibermesh® HP	•	•	•	•			•					•	•	•			
	Sika® Fibermesh®-150	•	•	•	•			•		•				•	•	•	•	
	Sika® Fibermesh®-300	•					•	•	•	•								
	Sika® Fibermesh®-150F											•				•		
	SikaFiber®-400 FF	•					•	•	•	•								
MACRO	Sika® Fibermesh®-650	•	•	•		•	•		•	•	•		•	•	•			
	SikaFiber®-800 Stealth	•	•	•	•	•	•	•	•	•	•		•	•	•			
	SikaFiber®-820 Stealth TW	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	
	SikaFiber® Enduro® Prime			•	•	•	•	•	•		•	•	•	•				
	SikaFiber® Force-48 or 54															•	•	
	Sika® Fibermesh®-650S													•			•	
STEEL	SikaFiber® Novocon CS-1000		•	•		•	•								•			
	SikaFiber® Novocon® HE-4550		•	•														
	SikaFiber® Novocon® CHE-6560			•	•	•							•		•			
	SikaFiber® Novocon® CHE-8060				•							•						
	SikaFiber® Novocon® CHE-6535					•							•		•	•	•	
	SikaFiber®-6513 UHPC																	•
BLEND	SikaFiber® Novomesh®-950	•	•	•			•		•	•								

CONSTRUCTION BENEFITS

SikaFibers have an innumerable amount of applications in concrete construction. By reducing or replacing traditional mesh and steel reinforcement, labor costs will be reduced and construction schedules can be accelerated. Safety is increased by reducing the chances of tripping or impalement by traditional steel reinforcement. With concrete fiber being integral throughout the concrete, there is no opportunity for reinforcement to end up in the incorrect location.

KEY APPLICATION BENEFITS:

- Integral reinforcement, always the correct location
- Increased safety
- Less opportunities for callbacks
- Increased long term durability
- Reduction in labor
- Faster placement schedule

A Global Company
But Local Partner

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Our most current General Sales Conditions shall apply.
Please consult the Product Data Sheets prior to any use and processing.

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