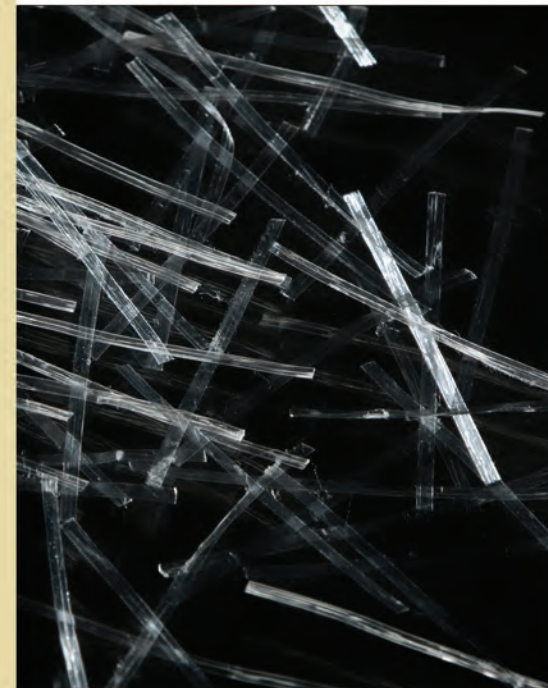


**FiberMax benefits and applications**

	Reduces Plastic Shrinkage Cracking	Reduces Temperature Shrinkage Cracking	Increases Toughness and Durability	Alternative to Light Gauge WWF	Alternative to all WWF, #3 and #4 Rebar	Primary Reinforcement (Application Dependent)	Primary Applications
FiberMax Mono	✓						Residential flatwork, stamped and colored concrete
FiberMax Fibrillated	✓	✓	✓	✓			Residential and commercial flatwork, pre-cast toppings
FiberMax Macro	✓	✓	✓	✓	✓		Industrial and commercial floors, white-topping and pavement (Application dependent)
FiberMax Steel	✓	✓	✓	✓	✓	✓	Foundations, airport pavement, industrial and commercial flatwork (Application dependent)

# FiberMax

**FIBER REINFORCED CONCRETE**  
*Strong • Durable • Cost-Effective*



**Your construction partner from the ground up!**

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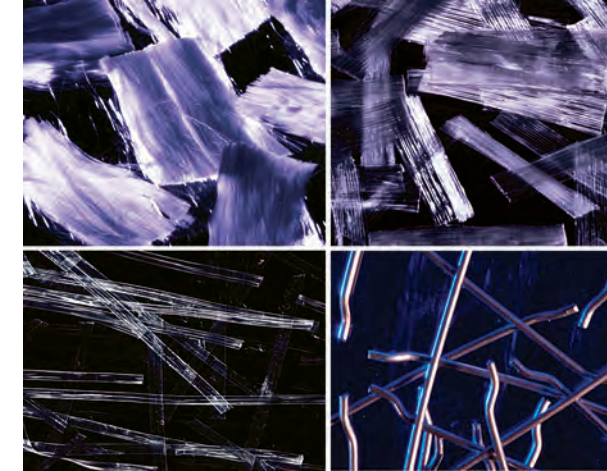
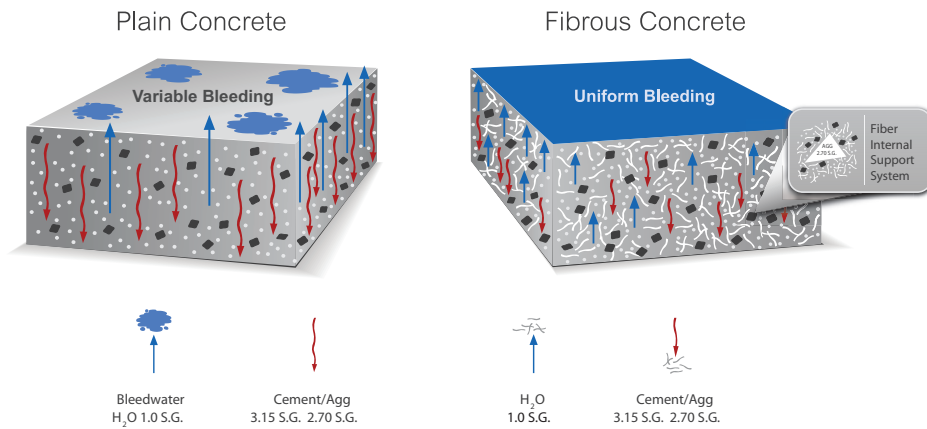
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## FiberMax... for Durability and Enhanced Crack Control

One of the main challenges of concrete construction is controlling shrinkage cracking both at the early stage (plastic shrinkage) as well as during the settlement stage (drying and temperature shrinkage.) Steel reinforcement in the form of welded wire mesh and rebar does not prevent or minimize cracking—it simply works along a two-dimensional plane to hold together cracks that have already occurred. Reinforcing fibers are distributed in three dimensions throughout the mix offering support for the coarse aggregates. This minimizes segregation that can lead to excessive bleeding, surface defects and curling.



The **FiberMax** line of fiber reinforcement products includes four types of fibers for a range of applications: synthetic monofilament, synthetic fibrillated, macro-synthetic and steel fibers. All FiberMax reinforced concrete improves permeability and abrasion resistance while eliminating more than 85% of the plastic shrinkage cracking potential and providing excellent finishing characteristics.

Depending on the project, the proper fibers provide an alternative system for a multitude of traditional steel reinforcement configurations, from light gauge welded wire fabric to various uses of rebar, reducing costs and production time while increasing crew safety.



**FiberMax Mono** ultra-thin synthetic fibers provide millions of connections distributed throughout the mix to prevent the micro cracks that form as water evaporates from the concrete (plastic shrinkage) from growing. The polypropylene fibers are manufactured with an extremely small diameter to length aspect ratio that are almost invisible, providing excellent finishing characteristics while meeting ASTM C1116 standards.

### Benefits:

- Reduces plastic shrinkage by 70-85%.
- Enhances impact and abrasion resistance
- Requires no additional labor

**Applications:** Excellent for residential, slab on grade projects including:

- Driveways and walkways
- Patios and pool decks
- Stamped and colored concrete

Best used for plastic shrinkage control. Does not replace any steel reinforcement.

*FiberMax Mono fibers are ideal for decorative concrete projects and provide superior plastic shrinkage crack resistance for most exterior flatwork.*



**FiberMax Macro** uses heavy duty synthetic fibers specifically engineered for use as secondary reinforcement, providing excellent plastic shrinkage control and reduced settlement cracking. FiberMax Macro provides increased flexural toughness and increases shatter and abrasion resistance, improving the concrete's long-term durability and integrity. Properly engineered and dosed, FiberMax Macro can be an alternative for all types of welded wire fabric, conventional light gauge steel reinforcement (#3 and #4) and steel fiber, depending on the application.

### Benefits:

- Speeds overall construction time
- Reduces labor and material costs by eliminating all WWF used as secondary reinforcement
- Increases worker safety
- Reduces long term cracking
- Improves residual strength
- Improves green strengths—permits earlier stripping of forms with less rejection
- Eliminates rusting

**Applications:** Excellent for all heavy duty industrial and warehouse floors and some pavement applications, including:

- Industrial/warehouse floors
- Commercial slabs on grade
- Pavement
- Whitetopping and concrete overlays
- Metal deck floor construction

FiberMax Macro can be used to extend joint spacing with the proper engineering support.

*FiberMax Macro fibers enhance mixes to provide excellent crack control while boosting the speed of construction.*



**FiberMax Fibrillated** polypropylene fibers employ a unique technology that creates additional micro fibrils attached to the primary fibrillated network. These offer more adhesion points that increase bonding between the mortar matrix and the fiber network. The resulting network increases concrete compressive and tensile strength providing excellent shrinkage and temperature (secondary) reinforcement. Additionally, FiberMax Fibrillated has excellent finishing properties. FiberMax Fibrillated fibers are a cost-effective alternative to light gauge welded wire fabric (WWF). The fibrillated strands prevent 80-100% of all cracks in the plastic state—precisely when most cracks occur. Fibrillated complies with ASTM C 1116/C 1116M Section 4.1.3, Type III, Note 2.

### Benefits:

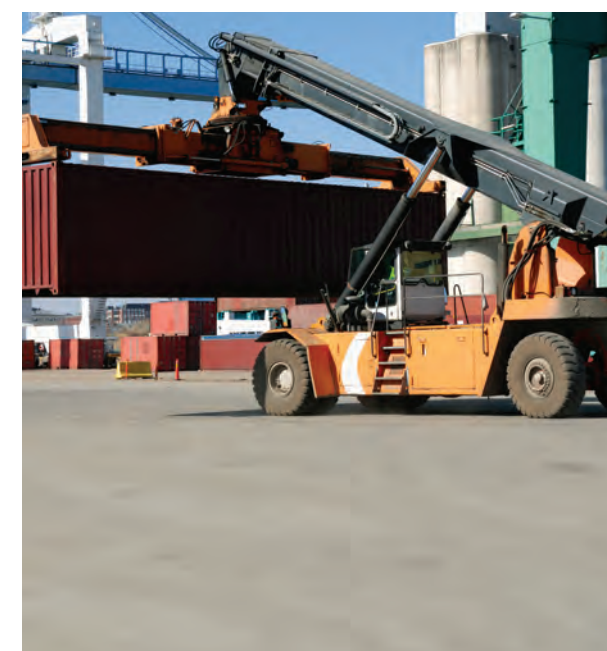
- Saves construction and placement time, especially for laser screed operations
- Increases crew safety by eliminating wire mesh handling
- Reduces long term cracking
- Improves residual strength
- Improves green strength

**Applications:** Can be used for all residential flatwork as well as light duty commercial floors including:

- Slabs on grade (driveways, patios, walkway)
- Standard commercial floor traffic such as stores, hospitals, offices
- Concrete toppings of precast panels
- Stair pans and basement floors

A good alternative for WWF 6 x 6 and W1.4 x W1.4, but cannot replace any other steel reinforcement.

*FiberMax Fibrillated fibers can be an alternative for wire mesh for many flatwork projects improving crew safety and reducing construction time.*



**FiberMax Steel** uses low carbon, cold-drawn wire fibers that are mechanically deformed to provide maximum adhesion between the steel fiber and concrete. Specifically designed to enhance hardened concrete, the uniform distribution of steel fibers redistributes stresses within concrete, and restrains the mechanism of crack formation, propagation and extension. The result is a more ductile reinforced concrete that provides a long-term load-carrying capacity. With proper dosing and engineering, FiberMax Steel can be used in lieu of all steel reinforcement for many applications.

### Benefits:

- Speeds overall construction time
- Reduces labor and material costs by eliminating welded wire mesh and rebar
- Increases worker safety
- Reduces long term cracking
- Can reduce concrete thickness required

**Applications:** Can be used in lieu of primary reinforcement in foundations and other applications including:

- Wind generator foundations
- Airports and seaport pavements
- Industrial and commercial floors
- Basement walls
- Retaining walls and slope stabilization

Proper dosing and engineering is required to meet the design requirements of a specific project.

*FiberMax Steel fibers can be used in lieu of many types of steel reinforcement while providing long term strength and durability for heavy commercial projects.*