



FiberMax^{MA}

Fiber Reinforced Concrete

Durability and Enhanced Crack Control

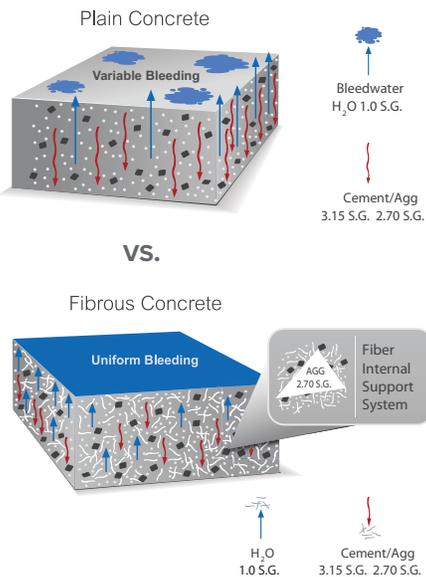
One of the main challenges of concrete construction is controlling shrinkage cracking both at the early stage (plastic shrinkage) as well as during the settlement stage (drying and temperature shrinkage). Steel reinforcement in the form of welded wire mesh and rebar does not prevent or minimize cracking—it 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.



FiberMaxMA fibers provide increased flexural toughness.



The FiberMax line of fiber reinforcement products includes three types of fibers for a range of applications. 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 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 (10mm and 15mm) and steel fiber, depending on the application.

BENEFITS:

- Speeds overall construction time
- Reduces labour 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.



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