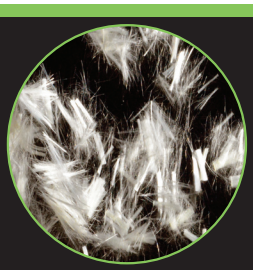
Microstran

Synthetic Micro-Fiber Reinforcement



Microstran Synthetic Micro-Fiber is the ONLY micro-fiber available that produces exceptionally high plastic shrinkage crack reduction, and is a literal alternative or replacement for WWM as secondary reinforcement. (Exceeding the requirements of ICC-ES AC32 4.7)

Recommended Applications

- Residential & Commercial Slabs on Grade
- Sidewalks and Driveways
- Architectural and Decorative Concrete
- Stucco Applications
- Golf Cart Paths; Running and Bike Paths
- Exposed Aggregate; Stamped Concrete
- Patch and Repair Products
- Overlays and UTW Applications

Economic Benefits

Microstran Fibers chemically lock and bond with the fresh concrete matrix, controlling plastic shrinkage and providing secondary reinforcement; helping to eliminate crack formation that causes permanent weakening of the concrete. The addition of Microstran is less expensive when compared with traditional WWF, is always in the right place, has a higher performance value, and is non-corrosive.

Real bottom line savings!

Performance Advantages

- Significant Reduction in Plastic Shrinkage Cracking: >90%
- Fibers Chemically Bond with the Concrete Paste
- Excellent Finishability – Virtually Invisible at the Surface
- Always a Uniform Distribution of Fibers Throughout the Matrix
- Chemical Resistant – to Include Deicing Chemicals
- Increases Impact Resistance (ASTM C544)
- Increases Shatter Resistance (ASTM C496)
- Reduces Spalling and Surface Debonding from Corrosion
- Reduces Plastic Settlement and Water Migration with a Better Consolidation of Materials, for a More Uniform Bleed
- Improves Freeze/Thaw Durability (ASTM C666) for Extended Life

Monahan FiberWorx

Reinforcing Confidence

Manufacturer's Recommendations

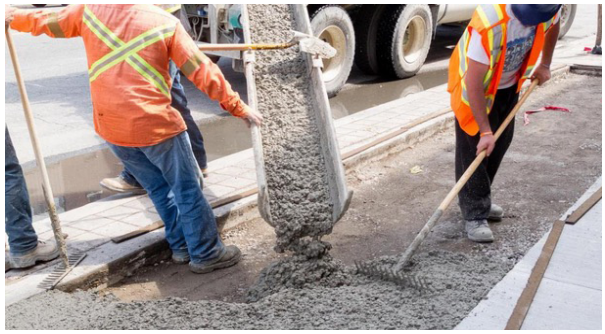
Microstran synthetic micro-fibers are pre-packaged in ready for concrete degradable bags, designed to be introduced into the mix at any time before, during or after the ready-mix concrete. FiberWorx recommends the mixing procedures as specified in ASTM C94.

Physical Properties

Material	Modified Acrylic
Specific Gravity	1.17
Elastic Modulus (GPa)	>10.5
Tenacity (MPa)	>650
Decomposition Temperature	330°C
Acid & Alkali Resistance	Excellent
Chemical Resistance	Excellent
Color	Natural
Diameter	12 Microns
Cut Length	6 & 18 mm
Fiber Count (per Kg)	794,000,000

Placing & Finishing of Microstran

There are no surface protrusions when using Microstran Fibers. They can be pumped or placed using conventional equipment, and can be used with all finishing techniques including power or hand troweling, and broom finishing.



Fiber-Free Finish!

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FiberWorx hopes the information given herein is helpful. All information is based on test data and knowledge considered to be true and accurate, and is offered for the user's consideration, investigation and verification.