



FIBERCON

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Fibercon Micro Poly Fibres for Concrete Reinforcing

Water Soluble Bag

300 Gram Bag

Boxes - 45 Bags/Box = 13.5kg

FIBERCON – Micro Poly - Product Data

Description:

Fibercon Micro Poly - Engineered Fibrous Concrete Reinforcement System

- 100 percent virgin copolymer, non-fibrillating, fully oriented, Micro Filament Fiber designed to provide a high performance concrete reinforcement system.
- Fibercon Micro Poly Fibers are specifically engineered and manufactured to be used for the reduction of plastic shrinkage cracks, to improve impact, shatter and abrasion resistance, to increase fatigue resistance, to increase toughness and provide long term durability of concrete and cement-based building products.
- Fibercon Micro Poly Fibers meet the material specifications described in ASTM C-1116, Type III, Section 4.1.3 "Synthetic Fiber-Reinforced Concrete and Shotcrete".

Function:

Reduces or replaces non-structural steel reinforcement in high performance concrete.

Applications such as- Footpaths, Industrial Floors, Loading Docks, Precast Products and Shotcrete:-

- * Increases impact, shatter and abrasion resistance of concrete
- * Increases fatigue resistance and concrete toughness
- * Reduces segregation, plastic settlement and shrinkage cracking
- * Reinforces against water migration; reduces permeability of concrete

Benefits:

Fibercon Micro Poly Fibers are an alternate system to welded wire fabric when used for non-structural secondary temperature and shrinkage crack reinforcement in hardened concrete.

Saves construction time & money by eliminating purchase, storage, handling, cutting, placing and waste of welded wire fabric - Always positioned in compliance with codes, automatically

- Requires no minimum amount of concrete cover
- Safe and easy to use
- Will not rust or corrode; chemically inert
- Non magnetic - 100% Alkali proof - Provides long term durability.

Applications:

Fibercon Micro Poly Fibers can significantly enhance the performance of all types of concrete and cement-based building products:

Examples: Pavements, Footpaths, Industrial Floors, Loading Docks, Precast Products Shotcrete Precast

Application Rate:

The standard recommended dosage rate of Fibercon Micro Poly Fibers is typically 0.9kg/m³ added directly to the concrete mixing system, during or after the batching of the other ingredients and mixed at the time and speed recommended by the mixer manufacturer (usually four to five minutes). Additional mixing does not adversely affect the distribution or overall performance of Fibercon Micro Poly Fibers. The addition of Fibercon Micro Poly Fibers at the recommended dosage rates to a given mix will decrease the slump; however, additional water should not be added. A mid-range water reducer or super-plasticizer should be used to provide the desired workability for placement. Contact your local Fibercon Micro Poly Fibers Representative for alternate dosage rates used in specialty applications.

Chemical and Physical Properties:

Material - 100% Virgin Blended Copolymer
Fiber Typ - Micro Filament, Non-Fibrillating
Fiber Length - 12mm
Absorption - Nil
Specific Gravity - 0.91
Tensile Strength - 685 - 758 MPa
Acid / Salt - Resistant
Low Alkali Resistance
Electrical Conductivity Low
High Thermal Conductivity

Mix Designs:

The addition of Fibercon Micro Poly Fibers at the normal recommended dosage rate does not require any mix design changes. A mid-range water reducer or super-plasticizer is recommended in concrete placements where improved workability and finishability are desired.

Finishing:

Fibercon Micro Poly Fiber reinforced concrete can be finished by most finishing techniques. Fibercon Micro Poly Fibers do not affect the finishing characteristics of concrete. They are non-corrosive, alkali proof and will not stain the concrete surfaces. Fibercon Micro Poly Fibers are compatible with power troweled, hand troweled, colored and broom finished concrete.

Compatibility:

Fibercon Micro Poly Fibers are compatible with all concrete admixtures and performance enhancing chemicals.

Packaging:

Fibercon Micro Poly Fibers are supplied in pre-measured ready to use degradable bags.

Fibercon Micro Poly Fibers are available in 12mm length.

Fibercon Micro Poly Fibers are packaged as follows:

- 300Gram bags; 45 bags per box, 32 boxes per pallet, 1440 bags per pallet - 432Kilograms net

Specification:

Fibers shall be 100% virgin olefin blend, non-fibrillating, fully oriented, microfilament fiber to provide a high performance concrete reinforcement system. Fibers shall have been engineered and manufactured for use as secondary reinforcement in ready mix concrete and cement-based building products. The fibers are to be used for non-structural temperature and shrinkage crack reinforcement in hardened concrete. The application rate shall be the minimum recommended dosage rate of 0.9kg per Cubic Metre. The fibers must meet the material specifications described in ASTM C-1116, Type III, Section 4.1.3 "Synthetic Fiber-Reinforced Concrete and Shotcrete".