Pro FiberTex

Polypropylene Fiber Reinforcement



Description:

Pro FiberTex is an engineered polypropylene fiber designed specifically for secondary reinforcing of concrete. Pro FiberTex fibers are true monofilaments that totally disperse into the concrete mix when added at the batch plant or at the job site. Pro FiberTex is available in various lengths and deniers to provide optimum strength, reduced cracking and long-term concrete durabliity.

When a ready mix concrete supplier adds Pro FiberTex to a mix, the process of material settlements is altered. Millions of evenly dispersed fibers produce an internal support system that prevents orslows solids fromsinking. This results in slower, more uniform bleeding and a reduction in concentrated internal tensile stresses that lead to plastic shrinkage cracking during early volume change. The stress induced micro cracks that do start are bridged and intersected by Pro FiberTex fibers, and crack propagation is stopped. Pro FiberTex fibers greatly reduce plastic shrinkage cracking and allows concrete to reach its designed strength & integrity without the use of weided wire fabric.

Primary Applications:

- Flatwork of industrial, commercial & residential concrete projects.
- Footings, foundations, walls and tank
- Concrete pipe, burial vaults and prestressed beams.

Features/Benefits (Plastic Concrete)

- Controls or eliminates plastic shrinkage cracks
- Reduces segregation
- Minimizes bleed water
- Provides three-dimensionla reinforcing versus two dimensional with wire mesh.

Dosage Rate

Residential: (0.6 KG/M3)(0.9 KG/M3) Commercial:

Hardened Concrete

- Reduces cracking
- Increase surface durability
- Reduces permeability
- Increases strengths

Others:

- Reduces in-place cost versus concrete with wire mesh
- Faster form removal
- Totally safe compared to extruded reinforcing mesh
- Easy to use and can be added to the concrete mix at any time prior to concrete placement.

Typical Results

Technical Data

Property

Polypropylene
0.91
Excellent
Excellent
Excellent
Excellent
7 (Air = 1)
Low
30
min (0.8M3)
Monofilament
2.37 KG/m3(4 lbs.F3)

Color White Absorption Nil Tensile Strength 75,000 psi min (517 Mpa) (40-100 ksi)

> (0.28 - 0.77 kN/mm2) 3793 MPa

Modulus of Elasticity (0.55 x 106psi) Youngs Modulus, 103 2.1-3.5 kN/mm2 (0.3-0.5)

590°C (1100°F) ksi Ignition Point Melting Point 160°C - 170°C (320°F - 340°F)

Packaging

0.9 Kg Bags

