HP 1930

PP Monofilament Microfiber | High Performance Fiber

DESCRIPTION

F-MAX | HP is our new generation microfiber with ultra-thin / high strength filament technology that provides optimum performance in plastic cracking prevention.

F-MAX | HP fibers provide a dense 3D net composed of more than 100 million filaments per cubic yard, achieving superior performance in reducing plastic cracking as compared to conventional fibers (20 to 30 million filaments/yd3).

Following ACI 544. 2R testing recommendations, the high strength and highest number of filaments per pound (200 million/lb) of F-MAX | HP fibers at 0.5 lb/yd3 proved greater performance than conventional fiber (30 million/lb) even at twice the dosage (1 lb/ yd3), improving your concrete and costs at the same time.

HOW TO USE

F-MAX is ready to use. The water-soluble bag can be thrown into the concrete mix at any time during the batching process except at the same time as the cement. Minimum mixing time should be at least 5 minutes at high RPM for adequate fiber dispersion. Concrete mixing and placement should adhere to ASTM C94/C94M and ACI 302 specs respectively.

APPLICATIONS

✓ Industrial, commercial and residential slabs.
✓ Hydraulic structures.
✓ Precast.
✓ Water tanks, pipes and pools.
✓ Fiber cement.
✓ Stucco and mortars.
✓ Waterproofing and sealants.

BENEFITS

✓ Easy to use, ship and store.
✓ Excellent finishability.
✓ Greater reduction of plastic shrinkage cracking than standard fiber.
✓ Substitutes metal wire mesh when used to reduce plastic shrinkage cracking.
✓ Does not require skilled labor.
✓ Non-corrodible and improved alkali resistance.
✓ Reduces permeability adding durability and service life of concrete.
✓ Greatly decreases aggregate segregation.✓ Reduces bleeding and promotes uniformity.
✓ Improves resistance to impact, abrasion and shattering.

TECHNICAL DATA

Material: 100% virgin polypropylene
Length: 19 mm
Color: White
Design: Monofilament
Section: Circular
Fibers / Kg: 473 million
Specific gravity: 0.92
Melting Point: 320°-340°F | 160°-170°C
Flash Point: 1,094°F (590°C)
Tension resistance: 450 MPa
Modulus of elasticity: 6.2 GPa
Absorption: None
Alkali Resistance: Excellent
Acid Resistance: Excellent
Electrical conductivity: Low
Thermal conductivity: Low

SUGGESTED DOSAGE

In ready-mixed concrete, 300 gr per cubic meter is recommended.
For made-on-site concrete, 50 gr per bag of cement (50 kg) is recommended.

CAUTIONS

FMAX is not a substitute for primary or structural reinforcing steel.

PACKAGING

Paper bag: 300 gr.
Box: 20 bags.
Pallet: 54 boxes = 1,080 bags = 324 kg.

Test	Unit	Control	FMAX | PRO	% CONTROL	ICC CRITERIA
Compressive Strength	Kg/ cm2	266	272	102%	≥Control
Flexural Strength	Kg/ cm2	40.10	42.30	105%	≥Control
Freeze/Thaw Durability	%	89.70	92.80	103%	≥Control
Bond Strength	PSI	112.10	139.90	125%	≥Control
Plastic Shrinkage Cracking Reduction	**%**	**-**	**88%**		**Min. 40%**

*Additional presentations can be provided upon request.