

PRO 7960

Polypropylene Fiber

DESCRIPTION

FMAX | PRO fibers are specifically designed to reduce plastic shrinkage cracking in concrete and mortar. The fibers prevent and reduce cracks in fresh concrete caused by plastic shrinkage, plastic settlement, expansion and/or thermal shrinkage.

F-MAX | PRO fibers also contribute to the reduction of the water evaporation rate in concrete and to the increase of water evaporation rate in concrete and to the increase in resistance to impact, abrasion and spalling.

HOW TO USE

F-MAX fiber comes ready to use. The bag is added to the ready-mix concrete before, during or after the mixing process, except during cement loading. The mixing time should be at least 5 minutes for better dispersion of the fibers.

It is recommended to follow the procedures for mixing indicated in ASTM C94/C94M, as well as following the practices for placing, finishing and curing concrete specified in ACI 302.

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.

*Additional presentations can be provided upon request.

| Test | Unit | Control | FMAX PRO | % CONTROL | ICC CRITERIA |
|---|----------|----------|------------|-----------|-----------------|
| Compressive Strength | Kg/ cm2 | 266 | 270 | 102% | ≥Control |
| Flexural Strength | Kg/ cm2 | 40.10 | 40.80 | 102% | ≥Control |
| Freeze/Thaw Durability | % | 89.70 | 91.00 | 101% | ≥Control |
| Bond Strength | PSI | 112.10 | 138.00 | 123% | ≥Control |
| Plastic Shrinkage Cracking Reduction | % | - | 86% | | Min. 40% |

TECHNICAL DATA

Material: 100% virgin polypropylene
 Length: 19 mm
 Color: White
 Design: Monofilament
 Section: Circular
 Fibers / Kg: 67 million
 Specific gravity: 0.92
 Melting Point: 320°-340°F
 | 160°-170°C
 Flash Point: 1,094°F (590°C)
 Tension resistance: 390 MPA
 Absorption: None
 Alkali Resistance: Excellent
 Acid Resistance: Excellent
 Electrical conductivity: Low
 Thermal conductivity: Low

SUGGESTED DOSAGE

In ready-mixed concrete, 1 lb per cubic yard is recommended.
 For made-on-site concrete, 0.2 lb per 94 lb bag of cement is recommended.

CAUTIONS

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

PACKAGING

Paper bag: 600 grs.
 Box: 30 bags.
 Pallet: 54 boxes = 1,620 bags = 972 kg.