

## PRO 7945M

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.
- ✓ Does not require skilled labor.
- ✓ Non-corrodible and improved alkali resistance.
- ✓ Excellent reduction of plastic shrinkage cracking.
- ✓ 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
<b>Plastic Shrinkage Cracking Reduction</b>	<b>%</b>	<b>-</b>	<b>86%</b>		<b>Min. 40%</b>

### 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 meter is recommended.  
 For made-on-site concrete, 100 gr per 50 kg bag of cement is recommended.

### CAUTIONS

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

### PACKAGING

Paper bag: 450 grs.  
 Box: 40 bags.  
 Pallet: 54 boxes = 2,160 bags = 972 kg.