

CON-TROL FIBERS

Integral Reinforcement
For Cement and Gypsum Based Mixes

ADDITIVE CRACK REDUCTION

DISTRIBUTOR:

Empire Blended Products, Inc.
250 Hickory Lane • Bayville, NJ 08721
(732) 269-4949 • Fax (732) 269-0497

PRODUCT DESCRIPTION:

CON-TROL FIBERS are ½" strands of virgin nylon monofilament. When added to Portland Cement and gypsum based mixes, they dramatically reduce cracking due to shrinkage in base and finish coats, while adding increased flexural strength. CON-TROL FIBERS absorb moisture in the mix and take on whatever color is present, and will not show on finished work.

USES:

- Secondary reinforcement in concrete, stucco, plaster or masonry mixes
- In shotcrete, reinforcement and reduction of bounce back

ADVANTAGES:

- Improves durability
- Increases impact and shatter resistance
- Increases freeze-thaw durability
- Reduces cracking due to shrinkage
- Reduces permeability
- Non-hairy surface
- Provides three dimensional reinforcing
- Mixes easily, disperses evenly and quickly throughout the mix
- Will not clog spray guns or pumps, does not decrease flowability of mix
- Alkali resistant

INSTALLATION:

SUGGESTED PROPORTIONS:



Surface Preparation:

Follow surface preparation instructions for the product that the CON-TROL FIBERS are being added to.

Mixing:

CON-TROL FIBERS are added to the dry material at the rate of one 3 ounce bag for 300-400 pounds of dry material. Blend dry material to disperse fibers and then add the mixing liquid. Mix to a lump-free consistency to completely blend the CON-TROL FIBERS through the mix. Because CON-TROL FIBERS absorb moisture, adjust amount of liquid in mixes accordingly. For ready mix concrete add 1 pound of CON-TROL FIBERS per cubic yard of concrete after all ingredients have been blended. Allow sufficient mixing time for fibers to fully disperse (approximately 5 minutes).

Placement:

Place and finish according to the directions for the product that the CON-TROL FIBERS are being added to.

Curing:

Follow curing instructions for the product that the CON-TROL FIBERS are being added to.

Packaging:

3 Oz. Bag	100 bags per carton
1 Lb. Bag	50 bags per carton

Color:

White

Each 3 ounce bag of *CON-TROL FIBERS* will treat 300-400 pounds of dry material. For ready mixed concrete, add one pound of *CON-TROL FIBERS* per cubic yard of material.

TECHNICAL DATA:

Filament Diameter.....	23 Microns
Filaments/lb.....	40 Million
Specific Gravity	1.16
Fiber Length.....	½ inch
Tensile Strength.....	130 ksi
Modulus (Youngs).....	750 ksi
Toughness	15 ksi
Melting Point	428°F (220° C)
Acid and Salt Resistance	Good
Alkali Resistance.....	Excellent
Ultra Violet Resistance.....	Excellent
Electrical Conductivity.....	Low
Thermal Conductivity	Low
Water Absorption/ Concrete.....	0.72 oz/yd ³
Concrete Surface	Non-hairy
Concrete Air Entrainment.....	No effect

LIMITATIONS:

CON-TROL FIBERS are for secondary reinforcement only. They are not intended to replace structural steel. *CON-TROL FIBERS* are not a replacement for wire in stucco or plaster applications.

CAUTION:

No special handling is required.

WARRANTY:

Due to the use of this product beyond our control, we assume no liability for damages of any kind, and the user accepts the product "as is" and without warranties, expressed or implied, from either Empire Blended Products or its agents. The suitability of the product for an intended use shall be solely up to the user. Our only obligation shall be to replace or pay for any material proved defective, with our liability limited to the purchase price of materials supplied by us.