

# ProFiber®-N

## Nylon Fiber Reinforcement

### DESCRIPTION:

**ProFiber®-N** is a 100% virgin nylon engineered true monofilament fiber designed to provide integral secondary reinforcement for concrete. The monofilament system is designed to increase finishability as compared to fibrillated fibers.

### USES:

**ProFiber®-N** is chemically inert, it will not degrade in the high alkaline environments of concrete. It can be used in ready-mix concrete and placed using conventional concreting methods. **ProFiber®-N** does not easily segregate from the mix. The addition of **ProFiber®-N** to a concrete mix does not increase water demand. **ProFiber®-N** can help to reduce the quantity of surface bleed water thus leading to greater water retention at early stages of hydration.

### APPLICATIONS:

- Residential, commercial or industrial flatwork
- Foundations and walls
- Tanks, concrete pipe, burial vaults

### ADVANTAGES:

- Reduces permeability of hardened concrete.
- Controls and eliminates plastic shrinkage cracking, restrains crack growth.
- Provides multi-dimensional reinforcement.
- Reduces segregation, minimizes bleed water
- Improves compression ductility and toughness and resistance to spalling.

- Reduces permeability
- Improves impact, shatter and abrasion resistance.

### BATCHING:

**ProFiber®-N** can be added during or after the charging of the mixer. Mix for 4 minutes or 75 revolutions at mixing speed to assure adequate distribution.

### NORMAL DOSAGE:

1.0 - 1.5lb / yd<sup>3</sup>. Resistance to plastic shrinkage cracking will increase with an increase in dosage

### SPECIFICATIONS / COMPLIANCES

- Meets ASTM C 1116 Standard specification for fiber reinforced concrete and shotcrete, type III.

### PACKAGING:

**ProFiber®-N** is packaged in 1.0 lb (0.45 kg) , 1.5 lb (0.68 kg) AND 5.0lb (2.25 kg) water dispersible low tear bags.

### SHELF LIFE:

3 years in original packaging

# ProFiber® -N

Property	Characteristic
<b>Cut length</b>	¾"
<b>Denier</b>	6 (5-7)
<b>Color</b>	White
<b>Fibers per lb. (at ¾")</b>	30 million
<b>Bulk Density</b>	30 lbs./ cubic foot (approximate)
Melting Point, C	225
Tensile Strength	130-140 Ksi
Young's Modulus	750Ksi
Acid & Salt Resistance	Good
UV Resistance	Excellent
Alkali Resistance	Excellent
Specific Gravity	1.16
Heat Conductivity	Low
Electrical Conductivity	Low
Water Absorption	4-5%

## TECHNICAL NOTE:

Please contact your Premiere Concrete Solutions Specialist for a pre-placement to discuss helpful batching, placement, finishing and curing procedures.

## COMPATIBILITY:

**ProFiber®-N** is fully effective and compatible in concrete containing all types of Portland cement, class C and F fly ash, calcium chloride, fibers and approved water-reducing, accelerating and retarding admixtures.

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