

ProFiber®-F

Fibrillated Polypropylene Fiber

DESCRIPTION:

ProFiber®-F is a 100% virgin polypropylene engineered fibrillated fiber designed to provide integral secondary reinforcement for concrete.

USES:

ProFiber®-F 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®-F** does not easily segregate from the mix. The addition of **ProFiber®-F** to a concrete mix does not increase water demand. **ProFiber®-F** 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®-F 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:

1.5lb/yd³ (900 g/m³)

SPECIFICATIONS / COMPLIANCES

- Meets ASTM C 1116 Standard specification for fiber reinforced concrete and shotcrete, type III, and meets ANSI / UL263, ASTM E119 for fire resistance
- Complies with applicable portion of the International Conference of Building Officials (ICBO) acceptance criteria AC32

PACKAGING:

ProFiber®-F is packaged in .75 lb (0.34 kg), 1.0 lb (0.45 kg) and 1.5 lb (0.68 kg) water dispersible low tear bags.

COMPATIBILITY:

ProFiber®-F 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.



ProFiber® -F

| Property | Characteristic | ASTM |
|---------------------------------|------------------|--------------|
| Cut length | 3/4" | |
| Denier | 1200 (1050-1350) | ASTM 1577B |
| Elongation | 12-18% | ASTM 2101-91 |
| Fibers per lb. | N/A | |
| Resin Melt Flow Rate, g/10 min. | 3-5 | ASTM D-1238 |
| Density, g/cm ³ | 0.905 | ASTM D-1505 |
| Melting Point, C | 160-170 | ASTM – DSC |
| Young's Modulus, Ksi | 580 | |
| Ignition Point | 1100 deg F | |
| Tensile Strength, psi | 97,000 | ASTM D-3822 |
| Acid & Salt Resistance | High | |
| UV Resistance | Excellent | |
| Alkali Resistance | Excellent | |
| Specific Gravity | 0.91 | |
| Heat Conductivity | Low | |
| Electrical Conductivity | Low | |
| Water Absorption | Nil | |

SHELF LIFE:

3 years

TECHNICAL NOTE:

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

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