

ProFiber® – Multi-Length MFP

Monofilament Polypropylene Fiber

DESCRIPTION:

ProFiber® Multi-Length MFP is a 100% virgin polypropylene engineered monofilament fiber designed to provide integral secondary reinforcement for concrete. The monofilament system is designed to increase finishability as compared to fibrillated fibers.

The use of **ProFiber® Multi-Length MFP** results in an additional reduction in plastic shrinkage cracking as compared to ProFiber® MFP. This reduction is created through an increase in multidimensional reinforcement. **ProFiber® Multi-Length MFP** boasts a fiber count of 65 million per pound compared to 14 million per pound of ProFiber® MFP.

USES:

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

.75 - 1.5lb / yd³. 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, and meets ANSI / UL263, ASTM E119 for fire resistance
- Complies with applicable portion of the International Conference of Building Officials (ICBO) acceptance criteria AC32



ProFiber® – Multi-Length MFP

PACKAGING:

ProFiber® Multi-Length MFP 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® Multi-Length MFP 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.

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.

Property	Characteristic	ASTM
Cut length	Multi-length (¼", ½", ¾")	
Denier	6 (5-8)	ASTM 1577B
Elongation	40-150%	ASTM 2101-91
Fibers per lb. (at ¾")	65 million	
Resin Melt Flow Rate, g/10 min.	12-18	ASTM D-1238
Density, g/cm ³	0.905	ASTM D-1505
Melting Point, C	160-170	ASTM – DSC
Plastic Shrinkage Crack Reduction @ 2/3 lb./yd.	79.1%	
Flexural Modulus, psi	200,000	ASTM D-790
Tensile Strength, psi	93,100	ASTM D-3822
Flexural Stiffness, psi	160,000	ASTM D-790
UV Resistance	Excellent	
Alkali Resistance	Excellent	
Specific Gravity	0.91	
Heat Conductivity	Low	
Electrical Conductivity	Low	
Water Absorption	Nil	

Premiere Concrete Admixtures warrants its products to be free from defects in material and manufacture. There are no other warranties by Premiere Concrete Admixtures of any nature whatsoever, expressed or implied. This information is based on data and knowledge believed to be true and accurate at time of publication and is offered as a resource for the users of our products. Premiere Concrete Admixtures assumes no liability in the use of this information and does not warranty the results obtained for any application. Premiere Concrete Admixtures shall not be liable for damages of any sort, the use or results of this product and shall not be responsible for conditions outside its control, including but not limited to, other materials, design, inspection, workmanship and field conditions. No statement, recommendation, or other information is intended to infringe on any patent or copyright held by others.

