

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.

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

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.



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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	

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