

ProFiber®-MFP

Monofilament Polypropylene Fiber

DESCRIPTION:

ProFiber® 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.

USES:

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



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Property	Characteristic	ASTM
Cut length	¾"	
Packaging Configuration	1 lb. bags, 24 bags/box, 36 bxs./plt.	
Denier	15 (12-18)	ASTM 1577B
Elongation	40-150%	ASTM 2101-91
Fibers per lb. (at ¾")	14.3 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 @ 1 lb./yd.	87.6%	
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	

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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