

Product Data Sheet

DUROCRETE™ FIBRILIATED POLYPROPYLENE FIBERS

PRODUCT INFORMATION



Durocrete Fibrillated polypropylene fibers employ a unique technology that creates additional microfibrils attached to the primary fibrillated network. These offer more adhesion points that increase bonding between the mortar matrix and the fiber network. The resulting network increases concrete compressive and tensile strength providing excellent shrinkage and temperature (secondary) reinforcement. Additionally, Durocrete Fibrillated has excellent finishing properties. Durocrete Fibrillated fibers are a cost-effective alternative to light gauge welded wire fabric (WWF). The fibrillated strands prevent 80-100% of all cracks in the plastic state precisely when most cracks occur. Fibrillated complies with ASTM C 1116/C 1116M Section 4.1.3, Type III, Note 2.

TECHNICAL INFORMATION



Material	_____	Polypropylene
Specific Gravity	_____	0.91
Typical dosage	_____	0.9 kg/m ³
Available lengths	_____	6mm, 12mm, 21mm
Tensile Strength	_____	660 Mpa
Modulus of Elasticity	_____	4.0 Gpa
Melt point	_____	165°C
Electrical Conductivity	_____	Low
Water absorption	_____	Negligible
Acid and Alkali Resistance	_____	Excellent
Fiber count	_____	Approx. 14 million/0.45 kg

DOSAGE

For Concrete: 900 grams / cu. mtr. (minimum) when used as secondary reinforcement. The ratio of fiber and concrete can be determined by tests for special purposes. The fiber has better effects on the concrete with active compound materials, such as silicon ash, coal powder and ground slag.

MIXER

Universal batch mixer or Double-axle horizontal compelling mixer can be used.

STORAGE

Store in a dry area.



APPLICATIONS



We recommend that gloves and eye protection be used when handling fiber.