

Product Data Sheet

DUROCRETE™ MONOFILAMENT

PP FIBER (DMF)

PRODUCT INFORMATION



Durocrete is a high-performance monofilament micro polypropylene fiber that complies with the requirements of ASTM C-1116 and is used as crack controlling additive for cementitious materials. It is used to inhibit the formation of small cracks which can occur through plastic shrinkage, premature drying, and early thermal changes in order to provide utilizations of the intrinsic properties of hardened cementitious materials. Monofilament fibers do not affect the chemical hydration of the cement and are compatible with all concrete mixes and admixtures. It creates an internal support system resulting in more uniform bleeding thereby discouraging segregation and settlement of the concrete ingredients.

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.