

TechnoFiber™ PP

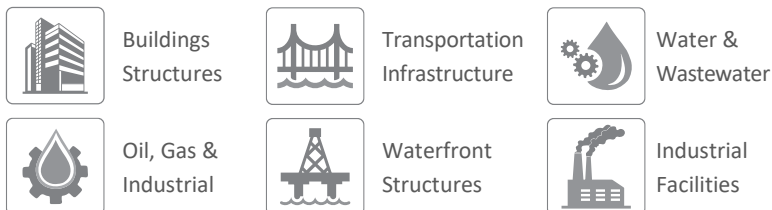
Chopped Polypropylene Fiber

TECHNOPOL

مقاوم سازی تکنوپل

PRODUCT DESCRIPTION

TechnoFiber™PP is a monofilament polypropylene fiber (manufactured from 100 % virgin polypropylene resin) specifically engineered for use in concrete as secondary reinforcement and for controlling plastic shrinkage and settlement cracking. TechnoFiber™PP meets the requirements of ASTM C-1116, section 4.1.3 Type III fiber.



TECHNICAL DATA

	Unit	TechnoFiber™PP
Compressive Strength (7 days)	MPa	>90
Bond Strength (7 days)	MPa	16
Substrate temperature	°C	+5 to +40
Ambient temperature	°C	+5 to +40

PHYSICAL PROPERTIES

Color	Gray	
Chemical Base	Epoxy Resin	
Mixing Ratio	by volume	2:1
Volume solid	100%	
Density	gr/cm ³	1.4

ADVANTAGES

- Reduces plastic shrinkage cracking.
- Reduces plastic settlement.
- Provides multi-dimensional reinforcement.
- Improves impact, shatter and abrasion resistance of concrete.
- Enhances durability and toughness of concrete.
- Reduces bleeding.
- Excellent finish ability.

TYPICAL USES

TechnoFiber™PP can be used in all types of concrete. Typical applications include: slabs, sidewalks, driveways, patios, decks, curbs, precast elements, linings, etc. TechnoFiber™PP acts mechanically by reinforcing the concrete with multidimensional fiber network coated with mortar. TechnoFiber™PP can decrease plastic and drying shrinkage cracking and increase impact resistance in young concrete. In case concrete is exposed to fire, the presence of TechnoFiber™PP

reduces the explosive spalling of the concrete. TechnoFiber™PP does not affect curing process chemically and does not absorb water.

PACKAGING

TechnoFiber™PP is available in 10 and 20 kg bags.

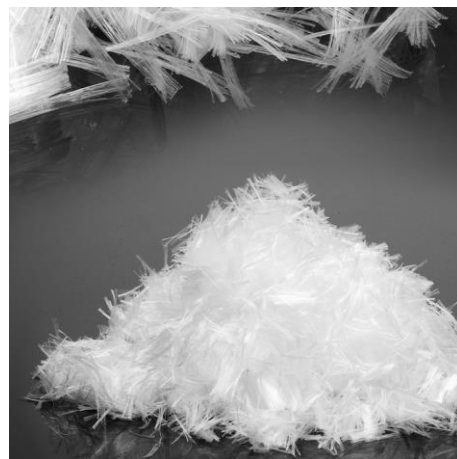
INSTALLATION PROCEDURE

MIXING

TechnoFiber™PP is packaged in degradable bags which readily break up during the mixing of concrete. TechnoFiber™PP can be added directly to the concrete mixing system during or after the batching of the ingredients and mixed at high speed for four to five minutes. Additional mixing does not adversely affect the distribution or overall performance of TechnoFiber™PP. The addition of TechnoFiber™PP at the recommended dosage rates to a given mix may decrease the workability, which should be adjusted by use of an appropriate water reducing admixture.

INSTALATION

Fiber reinforced concrete can be finished by most finishing techniques. TechnoFiber™PP does not affect the finishing characteristics of concrete. TechnoFiber™PP can be used in power/hand troweled concrete, colored



and broom finished concrete.

STORAGE

TechnoFiber™PP should be stored in a dry warehouse. Protect product from the rain.

When stored in dry conditions shelf life is 3 years

FAIRST AID

In case of skin contact, wash thoroughly with soap and water. For eye contact, flush immediately with plenty of water; contact physician immediately. For respiratory problems, remove to fresh air. Wash clothing before reuse.

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