



NanoFibres

Multifilament fibres for concrete crack and fire control science for a better concrete

Description

Polypropylene concrete fibres have been developed for optimum performance in a wide range of construction applications. From road and tunnel construction to sewage and other constructions. Whatever the application, Nano vision is always ready to offer the appropriate mix of PP Fibres that you need. Our PP Fibres prevent crack formation and result in better and more durable concrete. The addition of synthetic (PP) fibres affect the plastic and/or hardened properties of concrete.

Primary Applications

- Road
- Flooring
- Shotcrete
- Segmental lining
- Precast products
- Print concrete
- Tubes
- Screeds
- Pavements
- Sewer pipes
- High way safety barriers
- Polished architectural panels
- Stucco Products and rendering.

Advantages

PP Fibres in fresh concrete

- Reduce cracks in early-age concrete
- Reduce segregation and improves mix cohesiveness
- Improve early age compressive strength
- Reduce Bleeding

PP Fibres in hardened concrete

- Improve impact and abrasion resistance
- Better resist freeze/thaw cycles
- Improve water migration
- Are less subject to transport damage
- Improve fire resistance

General advantages of PP Fibres

- Make concrete last longer & reduce surface dusting
- Save time – save costs
- Reduce shotcrete rebound
- Reduce concrete waste
- Resist corrosion – alkali resistance

Properties

Length(mm)	6	12	18	20
Material	Polymerized – Olefin			
Density	0.910 g/ml			
Melting Point	160°C -170°C			
Color	White			
Tensile Strength	Strech-enhaced to :300-400N/mm ²			
Chemical Resistance	Excellent- especially in alkaline conditions.			

Packaging

300 gms pack & 10 kg bags

Storage

Store in dry and cool place below 35°C. Protect from direct sunlight.

Shelf life

12 months if stored properly in unopened packaging.

Dosage

Crack control 600-900g/m³
 Fire resistance 1-3Kg/m³
 Other addition upon local prescriptions

Compatibility

NanoFibres is compatible with all concrete admixtures.