

# Polypropylene Monofilament fibre

a type of polypropylene fibre also known as project fibre, concrete fibre, anti-crack fibre, synthetic fibre, or plastic fibre. It is widely used in roads, bridges, underground waterproofing, roofing and industrial concrete mixes, including refractory applications. Designed to mitigate shrinkage cracking and has been proven to reduce cracks by up to 80% compared to plain concrete.



# POLYPROPYLENE MONOFILAMENT FIBRE

## Product Advantages

- When using PP Fibres in concrete, the fibre-reinforced concrete will have better tensile strength when compared to non-reinforced concrete.
- The PP Fibres will also increase the concrete's durability, it reduces crack growth and increases impact strength.

## Applications:

- RCC/ PCC/ PQC/ Ramps /Retaining walls
- Water retaining structures
- RCC Grade slabs & roads
- Shotcrete in Tunneling work.
- Canal Lining
- Screed/Mortar application

## Key Features :



Improves crack resistance.



Enhances durability.



Reduces Plastic shrinkage & settlement cracks.



Increases impact & abrasion resistance.



Improves resistance to freeze & thaw cycles.



Enhances surface finish.



Improves fire resistance.



Reduces Permeability.

## Technical Specification

Material	Virgin Polypropylene
Diameter	16~35 $\mu\text{m}$
Density	0.91~0.92g/cm <sup>3</sup>
Length	3/6/12/18/24 mm
Tensile Strength	$\geq 400$ MPa
Melting Point	160- 180°C
Resistance to acid	Strong
Elongation	30-60%
Moisture Flat	< 1%

## Dosage:

Typically used dosage rate is 0.6 to 0.9 kg/m<sup>3</sup> but special applications can use dosage upto 3 kg/m<sup>3</sup>

## Packaging:

Available in 1kg & 5kg bags

## Storage & handling:

- Store in cool & dry place away from direct sunlight.
- Keep Packaging intact until ready for usage.
- Wear a face mask when handling large quantities.

## Shelf life:

Three years from the date of production.

