

# Polypropylene Macro Fibre Wave Form

are high performance polypropylene fibres engineered to significantly improve the durability and mechanical properties of concrete. These fibres are specially designed with an innovative wave form to enhance their bond with concrete, providing superior crack control, increasing load bearing capacity and enhanced energy absorption.



# POLYPROPYLENE MACRO FIBRE WAVE FORM

## Product Advantages

- Wave-form macro fibres enhance concrete by improving bonding, crack resistance and durability. Their wavy shape increases toughness, impact strength, and fatigue resistance while preventing corrosion and reducing permeability.
- With high environmental resistance, they are ideal for marine structures, ports, reservoirs, chemical industries and thermal power plants. Their durability ensures extended service life and lower maintenance costs.

## Applications:

- Tunnel liners and rock support.
- PQC (Pavement Quality Concrete)
- Roads, Bridges & Pavements
- Precast Concrete Elements
- Jetties & Ports
- Thermal Power Plants.
- Military Bases & Testing areas

## Key Features :

-  Increases flexural strength/ residual strength
-  Increases ductility in concrete
-  Reduces deflection in concrete structures
-  Increases durability in concrete
-  Can replace nominal steel & steel fibres
-  Improves elasto plastic behavior
-  Increases fatigue resistance
-  Reduces corrosion issues associated with steel reinforcement

Technical Specification	
Material	100% Virgin Polypropylene
Surface	Ribbed / Embossed
Diameter	0.80-0.90
Tensile Strength	> 550 MPa
Cut length	40 - 65 mm
Density	0.91~0.92g/cm <sup>3</sup>
Young's Modules	> 6000 MPa
Alkali Resistance	Excellent
Melting Point	> 160°C
Water Absorption	Nil

## Dosage:

- Typical dosage 3-9 kg per cubic meter of concrete.
- Higher dosage can be used as per design for specialized applications.

## Packaging:

- Available in 1kg & 5kg bags
- Also available in water soluble pucks

## Storage & handling:

- Store in cool & dry place away from direct sunlight.
- Keep Packaging intact until ready for usage.

## Shelf life:

3 years from the date of production.

