



INDUSTRIES
— ISO 9001: 2015 COMPANY —

ADT PP FIBRE

Polypropylene Micro Fibre for Concrete Reinforcement

PRODUCT DESCRIPTION

ADT PP Fibre is a high-performance polypropylene micro fibre, designed to be used as an effective alternative to conventional secondary steel mesh reinforcement in concrete.

It improves green-age performance of concrete by controlling plastic shrinkage cracks and enhancing homogeneity of the mix.

The fibres are uniformly dispersed throughout the concrete matrix, creating a three-dimensional reinforcement system that improves durability, crack resistance, and surface finish.

FIELDS OF APPLICATION

ADT PP Fibre is suitable for use in:

- Industrial & residential concrete works
- Precast concrete elements
- Printed / stamped concrete
- Architectural concrete
- Slabs, pavements, screeds & toppings

KEY BENEFITS

Practical & Economical

- Industrial & residential concrete works
- Precast concrete elements
- Printed / stamped concrete
- Architectural concrete
- Slabs, pavements, screeds & toppings

TECHNICAL ADVANTAGES

- Controls plastic shrinkage cracks
- Improves green-age bond strength
- Corrosion-free (non-metallic)
- Non-conductive
- 100% alkali resistant
- Improves mix cohesion and adhesion
- Enhances mechanical performance of concrete



helpdesk@adtchemical.com



022 4617 3853



www.adtchemical.com

Registered Office : Raheja Arcade, Block-1, Plot-61, Sec-11, CBD, Belapur, Navi Mumbai - 400 614

TECHNICAL PROPERTIES

PROPERTY	VALUE
Fibre Type	Polypropylene Micro Fibre
Fibre Length	12 mm / 18 mm (as specified)
Diameter	34 μm ($\pm 1 \mu\text{m}$)
Density	0.91 g/cm
Elongation at Break	~200%
Young's Modulus	~3750 MPa
Tensile Strength	350 – 400 MPa
Melting Point	> 164°C
Alkali Resistance	100%
Electrical Conductivity	Nil

PERFORMANCE CHARACTERISTICS

- Extremely fine fibre diameter results in **millions of fibres per kg**, ensuring uniform dispersion
- Provides excellent surface finish with **no fibre protrusion**
- Optimised fibre length ensures compatibility with standard concrete grading curves
- Effective during the **critical green-age phase (3–5 hours)**

APPLICATION METHOD

- Add **ADT PP Fibre** directly into the batching plant premixer or truck mixer
- Add as an additional aggregate
- Mix at high drum speed
- Mixing time: **minimum 1 minute per m³** to achieve uniform dispersion

DOSAGE	APPROX FIBRE	TOTAL FIBRE LENGTH
500 g/m	~100 million fibres	~1780 km / m ³
1000 g/m	~200 million fibres	~3560 km / m ³

Concrete remains pumpable using standard placing techniques



helpdesk@adtchemical.com



022 4617 3853



www.adtchemical.com

PACKAGING

- 500 Grams / 12.5 Kg / 25 Kg bags
- Pre-measured sachets (on request)

STORAGE

Store in cool, dry, and shaded conditions. Protect from moisture.

SHELF LIFE

24 months from date of manufacture when stored as per recommendations.

LIMITATIONS

- Does not replace structural reinforcement
- Replaces only secondary reinforcement (steel mesh)
- Does not reduce concrete thickness

HEALTH & SAFETY

- Inert, stable, and non-toxic
- Resistant to acids, salts, and chemicals
- No special health or safety precautions required



helpdesk@adtchemical.com



022 4617 3853



www.adtchemical.com