

# TRI-CONCRETE FIBER

## Polypropylene Synthetic fiber for Concrete

### Description

**TRI-CONCRETE FIBER** is a monofilament Polypropylene Synthetic fiber which is Introduced in Concrete to inhibit the formation of plastic shrinkage cracking,



### Standard compliance

The product is certified by National Research Center.

- TYPE III
- ASTM (C1116)
- ASTM (D7508).

### Typical uses

**Tri-Concrete Fiber** is used in construction of:

- Road ways and highways.
- All concrete structures.
- Shopping Malls.
- Airports run ways.
- Industrial plants.

### Advantages

- Add abrasion resistance.
- Better impact and fatigue resistance.
- Inhibit plastic shrinkage cracking.
- Improve cohesiveness in concrete.
- Alkali proof, Simple to use.
- Improve durability
- UV Resistant.
- Reduce Permeability.

### Technical Data @°25c

Fiber length	12 to 20 mm.
Elongation %	14-15 %
Thermal conductivity	Low
Melting point	170 °C
Ignition point	590 °C
Electrical conductivity	Low
tensile strength	460 - 550 mpa
young's modulus	5000 - 6700 mpa

### Directions for use

**TRI-CONCRETE FIBER** is added either to the dry components before mixing or to the already mixed Green concrete into the mixer just before starting the pouring operation .  
In both cases ,a few minutes mixing is enough to obtain a good dispersion of the fibers .

### Dosage

0.600 - 0.900 kg/m<sup>3</sup> of concrete

### Package

**TRI-CONCRETE FIBER** is available in 0.900 kg bag

### Shelf Life

The shelf life of the product is 24 months in unopened condition if stored as Per the recommendations. Exposure to high temperature and humidity will result in considerable deterioration of the product and reduce its shelf life.

### Storage conditions

- Store the material in a cool, dry and covered place.
- Temperature should not exceed 35 °C.
- Do not expose the pails to direct sunlight and keep away from all sources of heat.

### Sustainability and environmental accountability

•TRI-CHEM's Environmental sustainability is the accountability to conserve natural resources and protect global ecosystems to support health and well-being for this a more positive approach is that accountability guides the actions of power-holders towards more socially and environmentally sustainable results.

### Technical support

- For any technical support, please contact TRI-CHEM technical office or representatives.

### Health and safety responsibility

- Workplace health and safety is all about sensibly managing risks to protect TRI-CHEM's workers and business.
- ISO 45001 is a systematic health and safety management is characterized by strong leadership involving managers, workers, suppliers, contractors and customers and also health and safety management is an essential part of the movement towards sustainable development.
- Spillages should be washed down immediately.
- PPE in accordance with the health and safety rules should be used during the materials application.
- For irritant effects of the non-cured material, avoid contact with skin and eyes during storage and application.



**Factory & Head Office:**

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## Institutional Excellence and quality performance

- Institutional excellence in TRI-CHEM refers to achieving high levels of performance, quality and effectiveness in all aspects of TRI-CHEM company's work, it involves a systematic and continuous effort to improve an organization's performance by applying best practices, innovative approaches and evidence-based strategies, institutional excellence spans various areas, such as training , research, innovation, community engagement, governance, management and sustainability, and involves setting high standards, measuring performance against these standards and continuously improving performance to meet or exceed these standards, excellence in TRI-CHEM also includes a culture of continuous improvement and learning, where everyone in the organization is committed to achieving the organization's goals, working together to find solutions to challenges and opportunities, and requires a collaborative approach that includes all stakeholders.
- All products originating from TRI-CHEM facility are manufactured under a quality management system independently certified to conform the requirements of the quality standards ( ISO 9001:2015).

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## Disclaimer

- While TRI-CHEM guarantees its products against defective materials, the use and application of these products are made without guarantee since the conditions of their application are beyond its control.
- TRI-CHEM is recommended to verify with TRI-CHEM that the product is suitable for the intended use, and that this data sheet version is the latest one.
- TRI-CHEM may modify it without prior notice and technical characteristics are listed for guidance only.
- Any specification, recommendation or information mentioned in this product data sheet is (to TRI-CHEM's best knowledge) true and reliable.
- However, because TRI-CHEM has no influence on the application method of these products and the care taken, the company cannot accept any liability arising from the use of its products.

TRI-CHEM's warranty is therefore limited to the quality of the materials supplied which are guaranteed against defective materials.

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