

TRI-MACRO FIBER

High Performance Synthetic Fiber Reinforcement For Concrete Applications.

Description

TRI-MACRO FIBER is a high-strength fiber made of 100% Polyolefin polypropylene copolymer raw material . The surface of the Synthetic macro fiber is designed with different embossing to increase toughness of concrete.



Standard compliance

- TYPE III
- ASTM (C1116)
- ASTM (D7508)
- EN 14889-2 / Type II

Typical uses

TRI-MACRO FIBER is used in construction of:

- Road ways and highways.
- All concrete structures.
- Precast Concrete.
- Shotcrete.
- wall Systems.
- Tunnel linings and slope stabilization.
- Bridges, airports and pools.

Advantages

- Excellent dispersion within concrete with robust adherence.
- Provides long term durability without risk of corrosion.
- Increase flexural toughness.
- Increase fatigue resistance.
- Reduce shrinkage and cracks.

Technical Data @°25c

Length	30 – 60 mm
Specific weight	0.91 gm/cm ³
Tensile strength	≥ 503 Mpa
Elastic modulus	>5000 MPa
Melting Point	160-170°c
Acid & Alkali Resistance	Strong
Packing	9 kg / carton box

Directions for use

Depending on the project requirements, recommended dosages 5 kg/m³

Homogeneous mixture is obtained by addition of **TRI-MACRO FIBER** to the aggregate band at the concrete batching plant or by mixing in a high speed concrete mixer or in the concrete ready-mix car.

for at least 5 minutes in the field.

DOSAGE

5 Kg / m³

Package

TRI-MACRO FIBER is available in 9 kg / carton box

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.

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).

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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