

CONCREASY

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CONCREASY®MACRO

Macro Synthetic Fiber Reinforcements in Tape Form for Structural Concrete Strengthening

Product Description

CONCREASY®MACRO, produced from 100% pure Polypropylene raw material in accordance with ASTM C-1116 and EN 14889-2 standards, provides ultra-high energy absorption capacity, effective crack control, and enhanced concrete service life in field concrete reinforcement applications.

Features and Advantages

CONCREASY®MACRO;

- Contains approximately 209.000 structural fiber reinforcements in tape form per 1 kg.
- Has high quantities of fiber reinforcements providing three-dimensional crack control, at every point in the concrete body.
- Its ultra-soft tape fibers do not remain on the concrete surface.
- Its extra-flexible structure prevents lumping in concrete.
- Easily ensures 100% homogeneous mixing in concrete.
- Provides a very high energy absorption capacity with an average of 500.000 - 600.000 fiber reinforcements per 1 m³ of concrete.
- Exhibits excellent resistance against acid, alkali, groundwater, seawater, and long-term corrosion due to its 100% pure polymer structure.

Areas of Use

In all floor concrete structures located on horizontal surfaces and designed with wire mesh, instead of traditional steel reinforcement, it is used as reinforcement in concrete to enhance structural strength.

- All industrial interior and exterior concrete
- Covering and screed concrete
- Concrete Roads
- Light Rail Systems, Railway Track Bed Concretes,
- High-Speed Train and Metro Track Bed Concretes
- Coastal and Harbor Projects
- Airport Facilities and Runways
- Water Structures and Infrastructure Facilities
- Precast Structural Elements
- Shot-Crete Applications in Tunnels and Mines

Application

Dosage and Mixing Instructions

The minimum dosage of CONCREASY®MACRO is 2 kg/m³. Depending on the design loads and strength requirements of the field concrete, it can be used up to maximum dosages of 6-8 kg/m³.

CONCREASY®MACRO easily integrates into concrete on-site. In the transit mixer mix, after adding the last bag of CONCREASY®MACRO, maximum homogeneity can be achieved by mixing at high speed for an average of 8 minutes.

Technical Data

Raw Material	: 100% Pure Polypropylene
Density	: 0.91 gr/cm ³
Product	: Tape Form Structural Macro Fiber Reinforcement
Lengths	: 40 – 42 mm
Tensile Strength	: 550 – 650 MPa
Elastic Modulus	: 6 – 10 GPa
Average Fiber Count per 1 kg	: 209.000 Monofilament Tape
Melting Point	: 160°C
Concrete Alkaline Environment Resistance	: Excellent
Acid, Groundwater, Seawater, and Corrosion Resistance	: Excellent
Production Norm	: EN 14889-2

Packaging

In 2 kilogram polyethylene bags, palletized.

DISCLAIMER

The information provided in this technical document is assumed to be obtained from accredited institutions and is considered reliable but not guaranteed to be complete. The usage and application information for CONCREASY®MACRO are solely recommendations and suggestions from the manufacturer. Any and all responsibilities, as well as financial risks arising from the use, mixing, application, surface treatments, and all processes related to the use of CONCREASY®MACRO alone or in concrete, lie with the end user due to their knowledge and approval of the product's use and application. EKAN CONCREASY CHEM explicitly states that it cannot be held responsible for any loss and/or additional expenses incurred due to the use or non-use of CONCREASY®MACRO in accordance with the information provided in the information forms.

Concreasy is an **Ekan** group company

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