

CONCREASY

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CONCREASY®MICRO 12

100% Pure Polypropylene Monofilament Micro Fiber Reinforcement System

Product Description

CONCREASY®MICRO 12 is a high-grade synthetic polymer fiber reinforcement, produced from 100% pure polypropylene raw material in compliance with EN 14889-2 standards. It is developed to prevent and control three-dimensional cracking at every point in concrete due to shrinkage in fresh concrete and long-term drying conditions in all concrete applications in infrastructure and superstructure projects.

Features and Advantages

CONCREASY®MICRO 12;

- Enhances concrete's resistance against cracking due to internal and external conditions.
- Provides effective crack control at every point.
- Increases surface strength, offering protection against impact and abrasion.
- Ensures passive fire resistance in concrete.
- Enables high-quality, micro-crack-free precast production.
- Maintains 100% durability against concrete's alkaline environment.
- Exhibits excellent resistance against acid, ground and sea water, and long-term corrosion.

Areas of Use

It is used to prevent and control the formation of hairline cracks in all field concrete in infrastructure and superstructure projects, as well as in all precast structural elements.

- Interior and exterior site concrete, screeds, coatings, field and industrial floor concretes
- Tunnel and mining lining and sprayed concretes
- All precast concrete manufacturing
- Concrete roads, railway track bed concretes
- Water and energy structures
- All ready-mix concrete productions where micro-cracking is undesired

Application

Dosage

- A minimum of 600 grams per 1 m³ of concrete for common ready-mix concrete production,
- A minimum of 1-2 kg per 1 m³ of concrete for precast structural element manufacturing,
- A minimum ratio of 0.5% of the dry binder weight per 1 m³ volume in the production of construction chemicals.

Mixing and Application Instructions

CONCREASY®MICRO 12 is easily added to concrete on-site. In transit mixer mixing, after the final bag of CONCREASY®MICRO 12 is added, 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	: Monofilament Micro Fiber Reinforcement
Length	: 12 mm
Additional Lengths	: 6 mm - 18 mm - 24 mm - 36 mm
Tensile Strength	: 550 - 650 MPa
Melting Point	: 160°C
Concrete Alkaline Environment Resistance	: Excellent
Acid, Groundwater, Seawater, and Corrosion Resistance	: Excellent
Production Norm	: EN 14889-2

Packaging

In 600-gram polyethylene bags, palletized.

CONCREASY®MICRO 12's shelf life is 2 years minimum when unopened and stored in a dry, moisture-free indoor environment in its original package.

Concreasy is an **ekan** group company

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