

CIKOpoly Fiber



Polypropylene Concrete Fiber

Description

CIKOpoly Fiber is a monofilament type of fiber manufactured of 100% virgin polypropylene containing no olefin, no polyamide or no recycled materials.

Applications

CIKOpoly Fiber is ideally designed to decrease the plastic shrinkage cracking in the following applications:

- Slab on grade
- Elevated slabs
- Parking areas
- Stamped concrete
- Pre-cast concrete
- Water tanks
- Pavements
- Shotcrete
- Renders
- Composite decks

Advantages

- Controls and inhibits crack formulation caused by Plastic shrinkage, settlement or other internal stresses in concrete.
- Cost effective replaces secondary reinforcements Steel mesh.
- High tensile strength.
- Easily distributed throughout the cementitious mix.
- Compatible with all types of cement and concrete Admixtures.
- Rust free

Standards

CIKOpoly Fiber complies with the requirements of TSE EN 14889 Part II Type 1.A. and ASTM C-1116-1997 Type III.

Physical properties

Fiber length	12 mm + / - 1 mm
Thickness	30-32 micron
Tensile strength (TS)	427 - 495 MPa
Modulus Elasticity (TS/E)	4457 – 5110 MPa
Elongation (E)	20 – 25 %
Specific Density	0.91 grams / cm ³
Colour	Transparent
Softening point	150 Celsius
Melting point	160 Celsius
Surface Area	140 m ² / kg
Acids effects	Stable
Oxidizing agents effects	Stable
Biological resistance	Stable
Cement compatibility	Excellent
Alkali effect	Stable
Abrasion resistance	Stable
Moisture regain	70%

Method of Use

Mixing

CIKOpoly Fiber is added to the mixer before or after batching of concrete.

Dosage

Dosage of CIKOpoly Fiber depend on the area of application.

Dosage is between 0.5 - 5.0 kg/m³ of concrete.

Packaging

CIKOpoly Fiber is available in bulk/Paper bags.

Storage

Store in original unopened packaging in dry and shaded areas.

Cautions

Health & Safety

There are no health hazards associated with CIKOPoly Fiber in normal use.

Fire

CIKOPoly Fiber is combustible and will burn if exposed to flame or other sources of ignition.

Technical Support

For any technical support, do not hesitate to contact CIKO team at any time as CIKO offers on and off-site services to end users, specifier and contractors.

More from CIKO Middle East

A wide range of construction chemical products are manufactured by CIKO Middle East which includes:

- Concrete admixtures and additives
- Waterproofing and damp-proof coatings
- Surface treatments
- Flooring and toppings
- Grouts and anchors
- Tile adhesives and grout
- Adhesives and bonding agent
- Concrete repair materials
- Protective coating
- Joint Sealants and Moulding compounds
- Ancillaries

Legal Notice and Warranty

CIKO warrants this product to be free from manufacturing defects and to meet the technical properties stated in the current Technical Data Sheet, if used as directed within its shelf life. Satisfactory results depend not only on quality of product but also on many factors beyond our control. CIKO makes no other warranty or guarantee, express or implied, including warranties of merchantability or fitness for a particular purpose with respect to its product. The sole and exclusive remedy of purchaser for any claim concerning this product, including but not limited to, claims alleging breach of warranty, negligence, strict liability or otherwise, is the replacement of product or refund of the purchase price, at the sole option of CIKO. Any claims concerning this product must be received in writing within one (1) year from the date of shipment and any claims not presented within that period are waived by purchaser. CIKO will not be responsible for any special incidental, consequential including lost profits or punitive damages of any kind. Purchaser must determine the suitability of the products for the intended use and assumes all risks and liabilities in connection therewith. This information and all further technical advice are based on CIKO's present knowledge and experience. However, CIKO assumes no liability for providing such information and advice including the extent to which such information and advice may relate to existing third party intellectual property rights, especially patent rights, nor shall any legal relationship be created by or arise from the provision of such information and advice. CIKO reserves the right to make any changes according to technological progress or further developments. The Purchaser of the Product(s) must test the product(s) for suitability for the intended application and purpose before proceeding with a full application of the product(s). Performance of the product described herein should be verified by testing and carried out by qualified experts.

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All CIKO products are manufactured under a strict management system conforming to and in compliance with requirements of international standards of Quality, Environmental, occupational Health and Safety ISO 9001, ISO14001 and ISO45001.



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