

MIX UK "FIBERON" 12 MM X 18 MICRON POLYPROPYLENE FIBRE

Technical Data Sheet

DESCRIPTION:

Fiberon is a high performance micro polypropylene fibre which complies with the requirements of ASTM C-1116 developed as a crack controlling additive for cementitious materials. It is available as a monofilament 12 mm in length for concrete and 6 mm in length for plaster and mortar. It is used to inhibit the formation of small cracks which can occur through plastic shrinkage, premature drying and early thermal changes, in order to provide utilization of the intrinsic properties of the hardened cementitious material.

Fiberon is based on selected raw material and manufactured under controlled conditions to give a consistent product.

Fiberon 12 mm fibre length is designed for concrete mixes, with aggregate size greater than 5 mm.

Fiberon 6 mm fibre length is designed for mortar mixes.

USES:

Specifically designed for crack control in cementitious materials covering areas such as readymix concrete, precast concrete, conventional shotcrete refactories, screeds, rendering mortars, etc.

Principle uses of fibre concrete include: concrete slabs, pavements, driveways, imprinted concrete, kerbs, pipes, overlays, patch repair, microsilica concrete, thin section walling, water retaining structures, marine concrete, heavy industrial floors, etc.

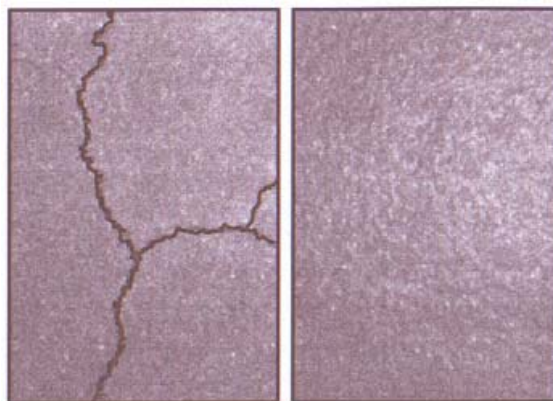
ADVANTAGES:

- Can replace anti crack wire mesh in factory and warehouse floors.
- Inhibits intrinsic cracking in concrete.
- Disperses uniformly throughout the mix.
- Improves finishing characteristics.
- Improves concrete durability.
- Increases impact and abrasion resistance.
- Rustproof.
- Impervious to alkali attack.
- Decreases construction time and labour.
- Reduced risk of subsequent damage.

TYPICAL PROPERTIES:

Specific Gravity:	0.91 g/cm ³
Alkali Resistant:	Nil
Sulphate Content:	Nil
Air Entrainment:	Air content of concrete will not be significantly increased.
Chloride Content:	Nil
Constituents:	Virgin Polypropylene C ₃ H ₆
Fibre Thickness:	18 micron
Min. Specific Surface Area:	260 m ² /Kg
Storage Life:	Minimum 12 months from date of manufacture.
Youngs Modulus:	5500-7000 MPA
Tensile Strength:	350 MPA
Melting Point:	160°C

Fiberon can be used with all types of cement and is compatible with other admixtures.



**CONTROL SLAB WITHOUT
FIBERON CONCRETE FIBRE**

**CONTROL SLAB WITH
FIBERON CONCRETE FIBRE**

ADDITION METHOD:

Fiberon is supplied ready for use in dissolvable paper bags, and in measured quantities for addition to the concrete mix whether at the batching plant or on site.

SPECIFICATION:

Concrete shall be manufactured using crack controlling additives such as **Fiberon** or a similar approved product. The crack controlling additive shall be based on a polypropylene fibre with an individual fibre thickness of 18 micron.

PACKAGING:

Fiberon 12 mm and 6 mm is available in 0.6 kg and 0.91 kg dissolving bags. All bags are packaged in cardboard boxes.

Different lengths and pack sizes are available on request.

ADDITION RATES:

The performance of **Fiberon** is best assessed after preliminary trials in the laboratory, or on site using the actual mix constituents under consideration to determine its effect on concrete properties.

The addition of **Fiberon** to the concrete mix makes the mix more cohesive slightly reducing the slump but not concrete workability.

As a guide to trials, the following dosage levels of **Fiberon** are recommended.

Product	
Fibre Length	12 mm 6 mm
Dosage	0.60/0.91 kg/m ³
Typical areas of application	Ready mix factory produced concrete



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EFFECTS OF OVERDOSING:

Excessive overdosing of Fiberon will generally produce a reduction in workability, and an increase in the cohesiveness of the mix.

STORAGE:

Should be stored in dry conditions similar to cement.

TECHNICAL ADVICE:

The Technical Department is available to assist you in the correct use of our products and its resources are at your disposal entirely without obligation.

SAFETY PRECAUTIONS:

Information contained in this data sheet is based on knowledge considered to be true and correct and is offered for the user's consideration, investigation and verification, but we do not warrant the results to be obtained. No statement, recommendation or suggestion is intended for any use which will infringe any patent or copyright.

Mix UK Fiberon Polypropylene Fibre is marketed
in the Gulf Region by:



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