

# MICROFIBER<sup>®</sup>

Polypropylene Fibers 6 mm

## Product Description

MICROFIBER<sup>®</sup> is a high-performance, monofilament, polypropylene fibre developed as a crack controlling additive for cementitious materials. 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 utilisation of the intrinsic properties of the hardened cementitious material.

MICROFIBER<sup>®</sup> is based on selected raw materials and manufactured under controlled conditions to give a consistent product

Specially designed for crack control in cementitious materials covering areas such as ready mix concrete, precast concrete, screeds, conventional shotcrete, rendering mortars, etc. Principle uses of fibre concrete include: concrete slabs, pavements, driveways, imprinted concrete, curbs, pipes, grouts, shotcrete, overlays, patch repair, microsilica concrete, thin section walling, water retaining structures, marine concrete, heavy industrial floors, etc.

## Typical Properties

Appearance	silvery white fibre, bundles
Air Entrainment	Nil
Chloride Content	Nil
Constituents	Polypropylene
Fibre Length	6 mm
Fibre Thicknes	18 micron
Specific Surface Area	225m <sup>2</sup> /kg

## Product Advantages

- 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

## Addition Rates

The performance of MICROFIBER® is best assessed after preliminary trial mixtures both in the laboratory and on site, using the actual mix constituents under consideration to determine the effect on concrete properties. As a guide to trials, a dosage level of 0.6 kg MICROFIBER® per m<sup>3</sup> is recommended.

For advice and assistance with trials we recommend that you consult GCP Applied Technologies.

## Method of Use

MICROFIBER® is supplied ready for use, in concrete dispersible bags, which contain measured quantities for addition to the concrete mix either at the batching plant or on site. Fibres should be added to the cementitious matrix and mixed for 5 minutes to ensure full dispersion. Under special circumstances it may be necessary to adjust the mode of addition and mixing cycle to suit specific applications.

The addition of MICROFIBER® may produce a slight reduction in workability while increasing the cohesiveness of the mix. Serious overdosing of MICROFIBER® will generally produce a reduction in workability and an increase in the cohesiveness of the mix.

## Compatibility

### With Cements:

MICROFIBER® can be used with all types of cement, including Limestone cement. It is also effective in concrete containing pulverised fuel ash or ground granulated blast furnace slag.

For use with special cements we recommend that you consult GCP.

### With Other Admixtures:

MICROFIBER® should not be pre-mixed with other admixtures. The performance of the material may be affected by the presence of other chemicals and we would recommend that GCP be consulted in such circumstances.

## Dispensing

MICROFIBER® is available in convenient concrete dispersible bags which are added, unopened, to the truck or central mixer.

## Health and Safety

For further information we recommend that you consult GCP

## Packaging

MICROFIBER® is available in 0.6 kg concrete dispersible bags. All bags are supplied overpacked in cardboard boxes.

## Storage

MICROFIBER® requires no special storage facilities under normal winter conditions.

## Technical Service

The Technical Service department of GCP is available to assist you in the correct use of our products. Please contact:

### GCP

Emirates Chemicals LLC  
Festival Tower, Suite 1701  
Dubai Festival City  
P.O. Box 5006  
Dubai, United Arab Emirates  
Tel: +971 4 2329901  
Fax: +971 4 2329940  
Email: [meinfo@grace.com](mailto:meinfo@grace.com)

**[gcpat.ae](http://gcpat.ae) | United Arab Emirates customer service: +971 4 5139560**

We hope the information here will be helpful. It is based on data and knowledge considered to be true and accurate, and is offered for consideration, investigation and verification by the user, but we do not warrant the results to be obtained. Please read all statements, recommendations, and suggestions in conjunction with our conditions of sale, which apply to all goods supplied by us. No statement, recommendation, or suggestion is intended for any use that would infringe any patent, copyright, or other third party right.

MICROFIBER is a trademark, which may be registered in the United States and/or other countries, of GCP Applied Technologies Inc. This trademark list has been compiled using available published information as of the publication date and may not accurately reflect current trademark ownership or status.

© Copyright 2018 GCP Applied Technologies Inc. All rights reserved.

GCP Applied Technologies Inc., 2325 Lakeview Parkway, Alpharetta, GA 30009, USA

P. O. Box 5006, Office 2104, 21 Floor, The Exchange Tower, Opp. JW Marriott Marquis Hotel, Business Bay, Dubai – United Arab Emirates

This document is only current as of the last updated date stated below and is valid only for use in the UAE. It is important that you always refer to the currently available information at the URL below to provide the most current product information at the time of use. Additional literature such as Contractor Manuals, Technical Bulletins, Detail Drawings and detailing recommendations and other relevant documents are also available on [www.gcpat.ae](http://www.gcpat.ae). Information found on other websites must not be relied upon, as they may not be up-to-date or applicable to the conditions in your location and we do not accept any responsibility for their content. If there are any conflicts or if you need more information, please contact GCP Customer Service.

Last Updated: 2022-11-18

[gcpat.ae/solutions/products/microfiber](http://gcpat.ae/solutions/products/microfiber)