

# RHEOFIBRE®

## Monofilament polypropylene fibres for cementitious systems

### Description

RHEOFIBRE® is a high performance monofilament polypropylene fibre developed as a crack controlling additive for concrete and mortar. RHEOFIBRE® is supplied agglomerated in flakes bound by a water soluble adhesive, contained within a water soluble bag to ease dispensing.

### Uses

RHEOFIBRE® is used to inhibit the formation of small cracks which can occur through plastic shrinkage and settlement, premature drying and early thermal changes, in order to provide utilisation of the intrinsic properties of the hardened cementitious material.

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

Principle uses of fibre concrete include: concrete slabs, pavements, driveways, imprinted concrete, curbs, 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.
- Disperse 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.
- Improves fire resistance – reduces the incidence of explosive spalling during heating.

### Packaging

RHEOFIBRE® is available in water-soluble bags of 0.6kg packed 30 to a box. A pallet contains 20 boxes.

### Typical properties

**Properties listed are only for guidance and are not a guarantee of performance**

Specific gravity:	0.91g/cm <sup>3</sup>
Alkali content:	Nil
Sulphate content:	Nil
Air entrainment:	Air content of concrete will not be significantly increased
Chloride content:	Nil
Constituents:	Polymerised polypropylene
Fibre diameter	18 micron
Fibre length	12mm
Surface area	230m <sup>2</sup> /kg min.
Youngs modulus:	3500-3900 MPa
Tensile strength:	320-400 MPa
Melting point	160°C

### Compatibility with other admixtures and cements

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

### Addition method

RHEOFIBRE® is supplied ready for use, and in measure quantities for addition to the concrete mix whether at the batching plant or on site.



The Chemical Company

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## Specification

Concrete shall be manufactured using crack controlling additive such as RHEOFIBRE®, a polypropylene fibre with an individual fibre length of 12mm and thickness of 18 microns.

## Addition rate

0.6kg/m<sup>3</sup>

## Effects of overdosing

Overdosing of RHEOFIBRE® will generally produce a reduction in workability, and an increase in the cohesiveness of the mix.

## Storage

Should be stored in dry conditions.

## Note

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local BASF representative.

BASF reserves the right to have the true cause of any difficulty determined by accepted test methods.

## Quality and care

All products originating from BASF's Dubai, UAE facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and OHSAS 18001.

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**As all BASF technical datasheets are updated on a regular basis it is the user's responsibility to obtain the most recent issue.**

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