

Monofilament polypropylene fibres for cementitious systems**Description of Product**

RHEOFIBRE® STAR 12-800 is a high performance monofilament polypropylene fibre developed as a crack-controlling additive for concrete and mortar. RHEOFIBRE® STAR 12-800 is supplied agglomerated in flakes bound by a water-soluble adhesive, contained within a water-soluble bag to ease dispensing.

Fields of Application

RHEOFIBRE® STAR 12-800 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.

Features and Benefits

- 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.
- Improves fire resistance - reduces the incidence of explosive spalling during heating.

Technical Data/Typical Properties*

Specific gravity:	0.91g/cm ³
Alkali content:	Nil
Sulphate content:	Nil
Air entrainment:	Air content of concrete will not be significantly increased
Chloride content:	Nil
Constituents:	Polymerised polypropylene
Fibre length:	12mm
Youngs modulus:	3500-3800 MPa
Tensile strength:	320-400 MPa
Melting point:	160°C

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

Application Procedure**Dosage Rate**

0.8kg/m³ (1 Bag)

Dispensing

RHEOFIBRE® STAR 12-800 is supplied ready for use, and in measure quantities for addition to the concrete mix whether at the batching plant or on site.

Effects of Overdosing

Overdosing of RHEOFIBRE® STAR 12-800 will generally produce a reduction in workability, and an increase in the cohesiveness of the mix.



The Chemical Company

RHEOFIBRE® STAR 12-800

Compatibility

RHEOFIBRE® STAR 12-800 can be used with all types of cement and is compatible with other admixtures.

Specification

A polypropylene fibre with an individual fibre length of 12mm and a diameter of $> 34\mu\text{m}$.

Packaging

RHEOFIBRE® STAR 12-800 is available in bags of 0.8kg, packed 20 to a box. A pallet contains 20 boxes.

Storage

Should be stored in dry conditions.

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The Chemical Company RHEOFIBRE[®] STAR 12-800

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Health and Safety

*For full information on Health and Safety matters regarding this product the relevant Health and Safety Data Sheet should be consulted.

The following general comments apply to all products.

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs, (which may also be tainted with vapour until the product is fully cured and dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Keep away from children and animals. Reseal containers after use.

Spillage

Chemical products can cause damage; clean spillage immediately.

DISCLAIMER

"BASF IBC Admixture Systems Limited (the Company) endeavours to ensure that advice and information given in Product Data Sheets, Method Statements and Material Safety Data Sheets (all known as Product Literature) is accurate and correct. However, the Company has no control over the selection of its products for particular applications. It is important that any prospective customer, user or specifier, satisfies him/her-self that the product is suitable for the specific application. In this process, due regard should be taken of the nature and composition of the background/base and the ambient conditions both at the time of laying/applying/installing the material and when the completed work is to be brought into use.

Accordingly, no liability will be accepted by the Company for the selection, by others, of a product, which is inappropriate to a particular application.

Products are sold subject to the Company's standard conditions of sale and all customers, users and specifiers, should ensure that they examine the Company's latest Product Literature.