

High performance micro polypropylene fibre

Uses

Fosroc PPF is primarily used as a crack controlling additive for cementitious materials. Typical applications are:

- crack control in readymix concrete, precast concrete, conventional shotcrete, screeds, rendering mortars, micro-silica concrete
- concrete slabs, pavements, driveways, imprinted concrete
- water retaining structures, marine concrete etc.
- patch repair, thin section walling etc.

Advantages

- Cost effective - replaces anti crack wire mesh
- User friendly - decreases construction time and labour
- Versatile - Inhibits intrinsic cracking in concrete, improves finishing characteristics, concrete durability and acts as a rust proofer.
- Disperses uniformly throughout the mix and does not rust.

Standards compliance

Fosroc PPF complies with the requirements of ASTM C111.6

Description

Fosroc PPF, is a high performance micro polypropylene fibre, developed as a crack controlling additive for cementitious materials. It is available as monofilament 12mm in length for concrete and 6mm 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.

Fosroc PPF is based on selected raw materials and manufactured under controlled conditions to give a consistent product.

Fosroc PPF is supplied in two sizes:

- 12mm fibre length is designed for concrete mixes, with aggregate size greater than 5mm
- 6mm fibre length is designed for mortar mixes.

Specification

Where shown on the contract documents, concrete shall be manufactured using Fosroc PPF, a high performance micro polypropylene fibre. The crack controlling additive shall meet the requirements of ASTM C111.6 and have a tensile strength of minimum 300 N/m².

Properties

<i>Form</i>	: Virgin Polypropylene fibre
<i>Specific gravity</i>	: 0.91 g/cm ³
<i>Alkali content</i>	: Nil
<i>Sulphate content</i>	: Nil
<i>Air Entrainment</i>	: Air content of concrete will not be significantly increased
<i>Chloride content</i>	: Nil
<i>Fibre thickness</i>	: 18 and 30 microns
<i>Youngs Modulus</i>	: 5500 - 7000 MPa
<i>Tensile Strength</i>	: 350 N/mm ²
<i>Melting Point</i>	: 160°C

Dosage

The optimum dosage of Fosroc PPF to meet specific requirements should always be determined by trial mixes using the materials and conditions that will be experienced in use.

As a guide to trials, the following dosage levels of Fosroc PPF are recommended.

Product

<i>Fibre length</i>	: 12mm 6mm
<i>Aggregate size, max</i>	: 32mm

Dosage

12mm fibres	: 0.6 / 0.91 kg/m ³
6mm fibres	: 1 kg/m ³

<i>Typical areas of application</i>	: Ready mix concrete
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Use at other dosages

Dosages outside the typical ranges quoted above can be used to meet particular requirements, Contact Fosroc for advice.

Effects of overdosing

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

Fosroc PPF*

Technical support

Fosroc offers a comprehensive technical support service to specifiers, end users and contractors. It is also able to offer on-site technical assistance, an AutoCAD facility and dedicated specification assistance in locations all over the world.

Estimating

Supply

Fosroc PPF 12mm fibres : 0.6kg and 0.91kg bags

Fosroc PPF 6mm fibres : 1kg bags

All bags are supplied in cardboard box containers.

Storage

Should be stored in warehouse conditions below 35 °C.

Additional Information

Fosroc manufactures a wide range of complementary products which include :

- waterproofing membranes & waterstops
- joint sealants & filler boards
- cementitious & epoxy grouts
- specialised flooring materials

Fosroc additionally offers a comprehensive package of products specifically designed for the repair and refurbishment of damaged concrete. Fosroc's 'Systematic Approach' to concrete repair features the following :

- hand-placed repair mortars
- spray grade repair mortars
- fluid micro-concretes
- chemically resistant epoxy mortars
- anti-carbonation/anti-chloride protective coatings
- chemical and abrasion resistant coatings

For further information on any of the above, please consult your local Fosroc office - as below.



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Important note

Fosroc products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Whilst Fosroc endeavours to ensure that any advice, recommendation, specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation or information given by it.

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