

## Isocrete PP Fibres

### Description

High performance crimped monofilament 6 mm long polypropylene fibres.

### Uses

To improve the durability of cementitious screeds and toppings by inhibiting the formation of small cracks, which occur because of plastic shrinkage and settlement due to premature drying.

Durability is further enhanced due to increased residual strength, resulting in improved abrasion, impact and spalling resistance.

Even distribution throughout the mix is due to fibres being coated with a special dispersing agent. Improves fibre bond and eliminates the requirement for shrinkage control wire mesh reinforcement.

Isocrete PP Fibres are intended for use in the Isocrete products K-Screed, Fast-K, Screedfast, Isogran, Isopol SBR and other polymer modified and conventional cementitious screeds and toppings.

Please note that Isocrete PP Fibres **cannot** be used as a replacement for structural steel reinforcement.

### Benefits

- Inhibits plastic shrinkage and settlement cracking
- Eliminates shrinkage control wire reinforcement
- Cost effective compared with wire reinforcement
- Specially pre-bagged to ensure correct dosing
- Improved abrasion, frost and impact resistance (good drop hammer results)
- Over 300 million fibres per m<sup>3</sup> of screed
- Controlled dispersion throughout the mix
- Reduced permeability and water absorption
- Reduced segregation and bleeding
- Improves surface finishing
- Alkali resistant and will not corrode

### Screed Reinforcement

Unbonded and floating screeds require continuous reinforcement to control shrinkage cracking.

- BBA approved product (Cert. No 06/4373)

### Model Specifications

Product: Isocrete PP Fibres

Isocrete PP Fibres (polypropylene fibre reinforcement) dosed at 75 g per 25 kg cement.

Preparatory work and application in accordance with the manufacturer's instructions.

Manufacturer: Flowcrete UK Ltd

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### Products Included in this System

For use in the Isocrete products K-Screed, Fast-K, Screedfast, Isogran, Isopol SBR and other polymer modified and conventional cementitious screeds and toppings. Detailed application instructions are available upon request.

### Installation Service

Several of the Isocrete proprietary screeds should only be installed by a Flowcrete approved licensee in accordance with a documented quality assurance scheme. Obtain details of our approved contractors by contacting our customer service team or enquiring via our web site [www.flowcrete.co.uk](http://www.flowcrete.co.uk).

The installation of conventional systems can be performed by any competent contractor.

### Typical Mix Designs

Isocrete PP Fibres may be used in any cement based screed at a dosage of 75g per 25kg cement, 150g per 50kg cement or 500g per tonne of ready mixed screed (i.e. approx 1kg per cubic metre). Examples of typical mix designs for Isocrete proprietary screeds can be obtained from our Technical Advisors.

### Focus on the Floorzone

Flowcrete are market leaders in specialist industrial and commercial flooring. Systems available include: underfloor heating systems, floor screeds, surface damp proof membranes, decorative floor finishes, seamless terrazzo, car park deck waterproofing, tank lining systems... to name just a few.

Our objective is to satisfy your Floorzone needs.

This can be difficult to achieve using D49 fabric reinforcement in faster setting systems such as Isocrete Screedfast and Isocrete Fast-K.

Bonded screeds and toppings in excess of 70 mm thick also benefit from continuous reinforcement to control plastic drying shrinkage. Isocrete PP Fibres dispersed fully throughout the screed mix effectively minimise the risk of such cracking and crazing due to shrinkage.

At day joints, steel fabric to BS 4483 Ref D49 should be provided as additional reinforcement, nominally at the centre of the screed.

### **Curing**

Normal good curing practices for conventional screeds or toppings must be strictly followed. It is recommended to cover the surface with polythene sheeting and lap all joints as soon as practicable following finishing works. Leave in position for at least 7 days. For Isocrete proprietary screeds, cure as recommended in the relevant product data sheet.

### **Technical Information**

Appearance	Fine fibre
Base Material	Polypropylene
Fibre Length	6 mm
Fibre Thickness	18 microns
Specific Gravity	0.91
Elongation at Yield	40%
Tensile Strength	350 mPa.s (average)
Absorption	Nil
Alkali Resistance	100%

### **Environmental considerations**

The finished system is assessed as non-hazardous to health and the environment. Environmental and health considerations are controlled during manufacture and application of the products by Flowcrete staff and fully trained and experienced contractors.

### **Important Notes**

Flowcrete's products are guaranteed against defective materials and manufacture and are sold subject to its standard Terms and Conditions of Sale, copies of which can be obtained on request.

Any suggested practices or installation specifications for the composite floor or wall system (as opposed to individual product performance specifications) included in this communication (or any other) from Flowcrete UK Ltd constitute potential options only and do not constitute nor replace professional advice in such regard. Flowcrete UK Ltd recommends any customer seek independent advice from a qualified consultant prior to reaching any decision on design, installation or otherwise