

## Isocrete Fast-K Screed



### Description

A semi-dry cementitious screed incorporating proprietary accelerating, water reducing and shrinkage compensation additives to give a high early strength, rapid drying screed.

Standard and Heavy Duty Isocrete Fast-K Screed can be utilised in bonded, unbonded or floating screed constructions.

### Uses

Fast track construction and refurbishment projects where the screed needs to be trafficked or overlaid quickly. Typical fast track applications include shopping centres, hospitals, schools, retail outlets.

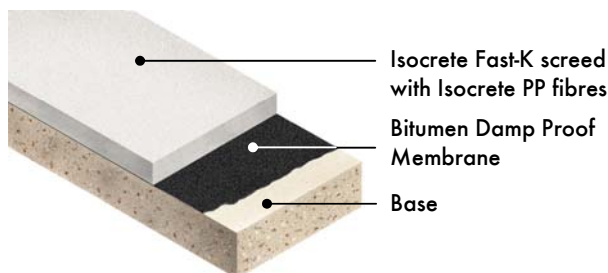
### Benefits

- Early traffic by following trades (8 hrs at 20°C)
- Early installation of sensitive finishes (7 days for 50mm thickness @ 20°C, 50% RH)
- Low shrinkage, minimises cracking
- High abrasion and impact resistance
- Use with underfloor heating systems
- Easy to use - excellent workability properties, can be pumped

### Project References

Boots; Habitat; J Sainsbury; Premier Brands; Fishergate Centre, Preston; PC World; Festival Walk, Hong Kong.

### Unbonded Screed



## Model Specifications

Product: Isocrete Fast-K (Standard / Heavy Duty)  
Preparatory work and application in accordance with manufacturers instructions.  
Manufacturer: Flowcrete UK Ltd

### Bonded

\_\_\_\_\_ mm Standard (or Heavy Duty) Isocrete Fast-K to be supplied and laid bonded with M-Bond Extra epoxy resin combined dpm and bonding agent to a suitable sound shotblasted or scabbled and vacuum cleaned in situ concrete base.

### Unbonded

\_\_\_\_\_ mm Standard (or Heavy Duty) Isocrete Fast-K reinforced throughout with steel fabric to BS4483 ref. D49 (or reinforced throughout with Isocrete PP Fibres with a strip of steel fabric to BS4483 ref. D49 across day joints) to be supplied and laid on a sound and clean bituminous damp proof membrane.

### Floating

\_\_\_\_\_ mm Isocrete Fast-K, reinforced throughout with steel fabric to BS4483 ref. D49 (or reinforced throughout with Isocrete PP Fibres with a strip of steel fabric to BS4483 ref. D49 across day joints) laid on and including \_\_\_\_\_ mm \_\_\_\_\_ insulation board.

Model specifications are also available for various other screed configurations. Please consult Flowcrete Technical Advisors.

### Installation Service

The installation should be carried out by an Isocrete Fast-K licensee with a documented quality assurance scheme. Obtain details of our licensed contractors by contacting our customer service team or enquiring on our website [www.flowcrete.com](http://www.flowcrete.com)

## Products included in this system

### Bonded

Primer:	Polymer 70 primer @ 0.05 kg/m <sup>2</sup>	M-Bond (M-Bond Extra) @ 0.5 kg/m <sup>2</sup> (0.9 kg/m <sup>2</sup> )
	Polymer 70 grout @ 0.05 kg/m <sup>2</sup> polymer	
Minimum Screed Thickness:	Standard 20 mm Heavy Duty 40 mm	Standard 15 mm Heavy Duty 30 mm
Curing:	Polythene sheet	Polythene sheet

### Unbonded

Dpm:	Proprietary bituminous membrane
Reinforcement:	Isocrete PP Fibres or D49 steel fabric
Minimum Screed Thickness:	Standard 40 mm Heavy Duty 60 mm
Curing:	Polythene sheet

### Floating

Insulation board / extruded polyethylene:	Proprietary materials
Reinforcement:	Isocrete PP Fibres or D49 steel fabric
Minimum Screed Thickness:	Generally 75 mm (65 mm domestic) but can be less (40 mm) on 5 mm acoustic insulation Consult Isocrete Technical Advisors
Curing:	Polythene sheet

Standard/Heavy Duty Isocrete Fast-K used @ 135 kg/m<sup>2</sup> for 75mm thickness. Detailed application instructions are available upon request.

## Smoothing Compounds

Isocrete Fast-K screeds are generally finished suitably to receive floor finishes direct. Damage to the surface of unprotected screeds may mean that a smoothing compound is necessary. However, it should be noted that the applicators of modern thin flooring will often recommend a smoothing compound on even well finished semi-dry screeds.

### If smoothing compound required:

Primer:	Isocrete Primer @ 0.05 kg/m <sup>2</sup> (for Isocrete 1500) or Isocrete Isotex Liquid @ 0.05 kg/m <sup>2</sup> (for Isocrete Isotex)
Smoothing compound:	Isocrete 1500 (3 mm) @ 5.1 kg/m <sup>2</sup> or Isocrete Isotex (3 mm) @ 6.0 kg/m <sup>2</sup>

## System Performance Guide

The table below shows how well the system complies with different characteristics.

A scale of 1 - 5 where 5 is the best value.

5 Excellent, 4 Very Good, 3 Good (Pass), 2 Fair, 1 Poor

### Standard Isocrete Fast-K Screed

Fire Safety	5	Shrinkage	3
Compressive Strength	3	Drying Time	4
Impact Resistance	3	Wear Resistance	2
Thermal Resistance	4	Foot Traffic	4

### Heavy Duty Isocrete Fast-K Screed

Fire Safety	5	Shrinkage	3
Compressive Strength	4	Drying Time	4
Impact Resistance	4	Wear Resistance	3
Thermal Resistance	4	Foot Traffic	5

## Technical Information

The figures that follow are typical properties achieved in laboratory tests at 20°C and at 50% Relative Humidity.

Density (approx.)	1,800 - 2,000 kg/m <sup>3</sup>
BRE Test Category	BS8204-1 Category A
Compressive Strength (28 days)	>25 N/mm <sup>2</sup> Standard Fast-K >30 N/mm <sup>2</sup> Heavy Duty Fast-K
BS EN 196-1	

## Speed of Cure

	10°C	20°C
Working time	50 mins	20 mins
Light foot traffic	18 hrs	8 hrs
Full traffic	5 days	3 days
Curing under polythene	12 hrs	12 hrs
Drying time to receive finishes (BS8203) from removal of curing polythene sheet		
50 mm thickness and 50% RH	14 days	7 days

## Residual Moisture content

Before floor finishes are laid, the moisture content of the screed should be checked by the Main Contractor. BS8203 recommends a maximum of 75% prior to the installation of sensitive finishes.

Moisture in the base will impede the drying of the screed. A damp proof membrane is required on ground floors and may be required on new concrete slabs to seal in excess construction moisture in the base. For unbonded and floating screeds, a dpm may be specified between the base slab and the screed. For bonded screeds, M-Bond Extra epoxy resin combined dpm and bonding agent may be used.

Note that Isocrete Polymer 70 and grout will introduce water. For the shortest drying times, bond with M-Bond epoxy bonding agent.

## Standard and Heavy Duty Isocrete Fast-K Screed

Standard Isocrete Fast-K Screed is suitable for most commercial applications.

Heavy Duty Isocrete Fast-K Screed is recommended in heavily trafficked areas of commercial buildings and in similar areas to receive resin floor finishes. (For industrial screeds, consult Flowcrete for appropriate screed specifications).

## Important Note

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.

## Further Information

To ensure you are specifying a fit for purpose flooring system for your project please consult our Technical Advisors on the number below or visit our website to register your interest in specifying one of the most durable floors on the market.

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