Flowcrete
for the world at your feet

Isocrete
floor screeds

Isocrete Fast-K Screed (bagged) (15 – 75mm)

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

Isocrete Fast-K Screed (bagged) is supplied as a special hydraulic binder containing fibres, that is mixed with graded aggregates and water.

Standard Fast-K Screed is suitable for most commercial applications. *Heavy Duty Fast-K Screed* is recommended in heavily trafficked areas of commercial buildings including areas to receive resin floor finishes. Both can be utilised in bonded, unbonded or floating screed construction, fast track construction and refurbishment projects.

Increased Quality Control:
Over hydraulic binders and fibres due to factory blended materials.

Fast Cure & Installation:
Early traffic (8 hrs @ 20°C) & installation of sensitive finishes (4 days for 50mm @ 23°C).

Resistance:
High abrasion and impact resistance.

Underfloor Heating:
Can be incorporated in underfloor heating.

Technical Profile

DENSITY (approx.)	1,800 - 2,000 kg/m³	
BRE TEST CATEGORY	BS 8204-1 Category A	

COMPRESSIVE STRENGTH (28 days)		
BS EN 13892-2	>25 N/mm² for Standard Fast-K	C25
	>30 N/mm² for Heavy Duty Fast-K	C30

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 - from removal of curing polythene sheet 50mm thickness and 50% RH	14 days	7 days

*Curing under polythene is based upon the screed having a steel trowelled finish. With the use of a Pan Float Finish it will eliminate the need for curing under polythene. The effect of the Pan Float Finish will be to bring more of the cementitious matrix to the surface of the screed. The effect will be to reduce the amount of shrinkage cracking within the surface of the screed.

These figures are typical properties achieved in laboratory tests at 23°C and 50% Relative Humidity.

Laboratory Testing**

MOISTURE (Carbide Test)	
1 Day	3.9 %
4 Days	2.5 %
7 Days	2.5 %

COMPRESSIVE STRENGTH (BS EN 13892-2)	
1 Day	24 N/mm²
4 Days	32.2 N/mm²
7 Days	41.3 N/mm²

FLEXURAL STRENGTH (BS EN 13892-2)	
1 Day	3.91 N/mm²
4 Days	4.84 N/mm²
7 Days	4.81 N/mm²

**Laboratory tests using specified mix design for Isocrete Heavy Duty Fast-K Screed with optimum sand source and grading at 23°C and 50% Relative Humidity.

For any other information please contact your local Flowcrete Technical Department.

Model Specification

Product	Isocrete Fast-K Screed (bagged) (Standard / Heavy Duty)
Thickness	15 – 75mm

Preparatory work and application in accordance wth manufacturer's instructions.

Products Included in This System

BONDED		
Primer	Polymer 70 primer & grout	M-Bond / M-Bond Extra
Minimum Thickness	Standard-20mm Heavy Duty- 40mm	Standard-15mm Heavy duty- 30mm

UNBONDED	
DPM	Proprietary bituminous or polythene membrane (min. 1200 gauge for DPM)
Reinforcement	Isocrete PP Fibres or steel fabric to BS4483 ref. D49
Minimum Thickness	Standard - 40mm Heavy Duty - 40mm (or 60mm for heavy traffic)

FLOATING	
Insulation board or void former	Proprietary materials
Reinforcement	Isocrete PP Fibres or steel fabric to BS4483 ref. D49
Minimum Thickness	Generally 75mm but can be less (40mm) on 5mm acoustic insulation
Isocrete Standard & Heavy Duty Fast-K weighs approx. 135 - 150 kg/m^2 @ 75mm thickness.	

Detailed application instructions are available upon request. Model specifications are also available for various other screed configurations. Please consult Flowcrete Technical Advisors.

Smoothing Compounds

Isocrete Fast-K Screed (bagged) is generally suitable 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^2
Smoothing compound:	Isocrete 1500 (3mm) @ 5.1 kg/m^2

Installation Service

The installation can be carried out by an Isocrete Fast-K Screed licensee with a documented quality assurance scheme. Obtain details of our licensed contractors by contacting our customer service team or enquiring via our website www.flowcrete.co.uk.

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% RH prior to the installation of moisture sensitive finishes.
Moisture in the base will impede the drying of the screed. A damp proof membrane (DPM) 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.

Important Notes

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

www.flowcrete.co.uk