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 and 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.
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.co.uk

Products included in this system

Bonded

Primer:
Polymer 70 primer @ 0.05 kg/m²
Polymer 70 grout @ 0.05 kg/m²/polymer

Minimum Screed

Standard 20 mm Standard 15 mm

Thickens:
Heavy Duty 40 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

Standard 40 mm

Thickness:
Heavy Duty 40 mm (or 60 mm for heavy traffic)

Curing:
Polythene sheet

Floating

Insulation board / extruded polyethylene:
Proprietary materials

Reinforcement:
Isocrete PP Fibres or D49 steel fabric

Minimum Screed

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 weighs 135 kg/m² @ 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/m²

Smoothing compound:
Isocrete 1500 (3 mm) @ 5.1 kg/m²

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/m³

BRE Test Category
BSB204-1
Category A

Compressive Strength (28 days)
>25 N/mm² Standard FastK
>30 N/mm² Heavy Duty Fast-K

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% RH 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 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.

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Model Specification written for Flowcrete UK Ltd.
Please consult Technical Team in own country region for specific details.

www.flowcrete.co.uk