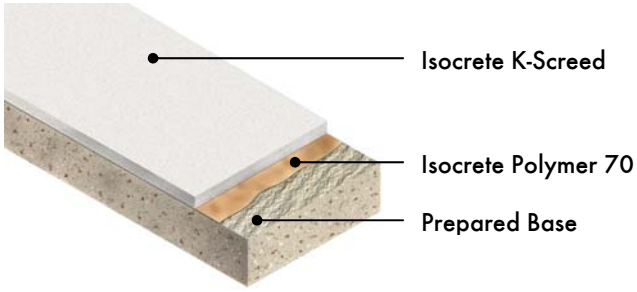
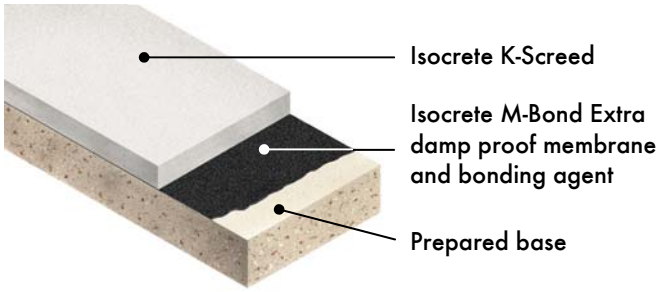
Isocrete K-Screed

Bonded Screed



Bonded Screed with dpm



Description
A semi-dry cementitious screed incorporating proprietary additives to produce an early drying, high strength screed.
Standard Isocrete K-Screed and Heavy Duty Isocrete K-Screed may be laid bonded, unbonded or floating (for weight saving and thermal or sound insulation) and may be used with proprietary underfloor heating systems.
Isocrete Composite K-Screed is a topping of Standard Isocrete K-Screed laid over a base of lightweight aggregate used for weight saving e.g. on roofs.
Additional data sheets are available for Isocrete K-Screed for weight saving, for impact sound insulation, for thermal insulation and for underfloor heating.

Uses
High traffic areas such as airports, shopping centres and hospitals where a high strength (Category A) screed is required, especially where thin finishes e.g. carpet, vinyl, wood or resin are to be used.
Fast track construction and refurbishment projects where the screed needs to be trafficked or overlaid quickly. A final floor finish is required (e.g. vinyl, carpet, wood, tiles or epoxy resins).

Benefits
- Early installation of moisture sensitive finishes
- Excellent workability properties, good compaction
- High strength and resistance to construction traffic
- Can be used with underfloor heating systems
- Guaranteed to meet Category A or B BRE screed test requirements as per BS8204 –1
- Laid only by Approved Licensees
- Approved by the British Board of Agrément, certificate No. 91/2678

Project References
Marks and Spencer, John Lewis, Littlewoods and Debenhams nationwide. Heathrow, Gatwick, Chek Lap Kok and Kuala Lumpur international airports. Over 800 hospital projects worldwide over the past 30 years, BBC Television Headquarters, Tate Gallery, Royal Exchange, British Library.

Model Specifications

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

Bonded

_____ mm Standard (or Heavy Duty) Isocrete K-Screed to be supplied and laid on an uncontaminated, shotblasted or scabbled and vacuum cleaned in situ concrete base, bonded with Isocrete Polymer 70 primer and grout (or bonded with M-Bond epoxy bonding agent or bonded with Isocrete M-Bond Extra combined dpm and bonding agent).

Unbonded

_____ mm Standard (or Heavy Duty) Isocrete K-Screed 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 K-Screed, 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 a 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 web site www.flowcrete.com

Products included in this system

Bonded

Primer:	Polymer 70 primer @ 0.05 kg/m² Polymer 70 grout @ 0.05 kg/m² polymer		M-Bond (M-Bond Extra) @ 0.5 kg/m² (0.9 kg/m²)	
Minimum Screed Thickness:	Standard	20 mm	Standard	15 mm
	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 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 75mm (65mm domestic) but can be less on thin insulation. See separate data sheet or consult Isocrete Technical Advisors
Curing:	Polythene sheet

Standard/Heavy Duty Isocrete K-Screed used @ 135 kg/m² for 75mm thickness
Detailed application instructions are available upon request.

Smoothing Compounds

Isocrete 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 (for Isocrete 1500) or Isocrete Isotex Liquid @ 0.05 kg/m² (for Isocrete Isotex)
Smoothing compound: Isocrete 1500 (3 mm) @ 5.1 kg/m² or Isocrete Isotex (3 mm) @ 6.0 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 BS8204-1	Category A
Compressive Strength (28 days) BS EN 196-1	>25 N/mm² Standard K-Screed >30 N/mm² Heavy Duty K-Screed

Speed of Cure

	10˚C	20˚C
Working time	2 - 3 hrs	2 hrs
Light foot traffic	48 hrs	24 hrs
Full traffic	7 days	7 days
Curing under polythene	7 days	7 days

Drying time to receive finishes (BS8203) 1 week per 25mm in good drying conditions (20˚C, 50% RH, good ventilation) from removal of the curing polythene sheet.

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. For unbonded and floating screeds, a dpm may be specified between the base slab and the screed. For bonded screeds, Isocrete M-Bond Extra epoxy resin combined dpm and bonding agent may be used.

Standard and Heavy Duty Isocrete K-Screed

Standard Isocrete K-Screed is suitable for most commercial applications. Heavy Duty Isocrete K-Screed is recommended in areas requiring Category A soundness (heavy trafficking, e.g. airport terminals, hospital streets, operating theatres and X-ray suites, stock rooms, lift lobbies, plant rooms, etc.) and areas in commercial buildings that will receive resin floor finishes. (For industrial screeds, consult Isocrete 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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