

Isocrete K-Screed



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).

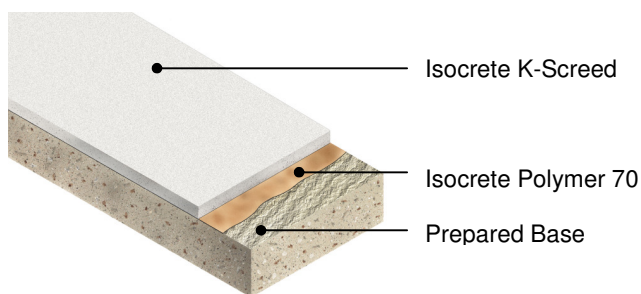
Benefits

- 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 Applicators
- Approved by the British Board of Agrément, certificate No. 91/2678

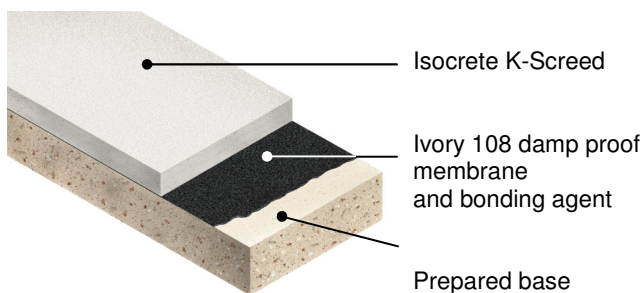
Project References

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.

Bonded Screed



Bonded Screed with dpm



Model Specifications

Product: Isocrete K-Screed (Standard / Heavy Duty)
Preparatory work and application in accordance with manufacturer's instructions

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 Ivory 108 epoxy 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/m ²	Ivory 108 @ 0.5 kg/m ² (0.9 kg/m ²)
	Polymer 70 grout @ 0.05 kg/m ² polymer	
Minimum Screed	Standard 20 mm	Standard 15 mm
Thickness:	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 60 mm
Curing:	Polythene sheet

Floating

Insulation board / extruded polyethylene:	Proprietary materials
Reinforcement:	Isocrete PP Fibres or D49 steel fabric
Minimum Screed	Generally 75mm (65mm domestic) but can be less on thin insulation. See separate data sheet or consult Isocrete Technical Advisors
Thickness:	
Curing:	Polythene sheet

Standard/Heavy Duty Isocrete K-Screed weighs 135 kg/m² @ 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 Self Level Plus) or Flowprime blinded with 0.3 -0.65mm Silica Quartz @ 0.2 kg/m² (for Isocrete Industrial Top)

Smoothing compound: Isocrete Self Level Plus (3 mm) @ 5.1 kg/m² or Isocrete Industrial Top (5 mm) @ 10.0 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/m ³
BRE Test Category	Category A
BS8204-1	
Compressive Strength (28 days)	>25 N/mm ² Standard K-Screed
BS EN 196-1	>30 N/mm ² 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% RH 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, Ivory 108 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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