

Isocrete K-Screed (bagged)

An early drying, high strength, semi-dry cementitious screed incorporating proprietary additives.

Supplied as a special hydraulic binder containing fibres that is mixed with graded aggregates and water.

Standard & 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.



Rapid Installation & Cure:

Delivers a screed that can be trafficked or overlaid quickly.



Resistance:

High strength & resistance to construction traffic.



Underfloor Heating:

Can be incorporated in underfloor heating.



Certified:

BBA certificate No. 91/2678 & Cat A or B BRE screed test (BS8204-1).



Technical Profile*

DENSITY (approx.)		
1,800–2,000 kg/m ³		
BRE TEST CATEGORY		
BS 8204-1	Category A	
COMPRESSIVE STRENGTH (28 DAYS)		
BS EN 13892-2	Standard 25 N/mm ² ** Heavy Duty 30 N/mm ² ***	
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

*These figures are typical properties achieved in laboratory tests at 20°C and 50% Relative Humidity.

**Standard Duty based on: 300 parts weight Isocrete K-Screed (25 kg bag) mixed with 1500 parts weight dry Laboratory graded sand 0/4 mm (MP) category 1 to BS 13139:2002.

***Heavy Duty based on: 300 parts weight K-Screed (25 kg bag) mixed with 1150 parts weight dry Laboratory graded sand 0/4 mm (MP) category 1 to BS 13139:2002 and 350 parts weight dry laboratory graded 6 mm single size aggregate to BS EN 12620.

****Drying time to receive finishes (BS 8203) 1 week per 25 mm in good drying conditions (20°C, 50% RH, good ventilation) from removal of the curing polythene sheet.

Standard & Heavy Duty 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) and areas in commercial buildings that will receive resin floor finishes.

Residual Moisture Content

Before laying a floor finish 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, Isocrete M-Bond Extra epoxy resin combined DPM and bonding agent may be used.

Model Specification

System	Isocrete K-Screed (Standard / Heavy Duty)
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 proprietary 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.	

Preparatory work and application in accordance with manufacturer's instructions. Model specifications are also available for various other screed configurations. Please consult Flowcrete Technical Advisors.

Installation Service

The installation can be carried out by any competent contractor. Obtain details of our approved contractors by contacting our customer service team or enquiring via our website www.flowcrete.co.uk.

Important Notes

Flowcrete products are guaranteed against defective materials and manufacture and are sold subject to our standard 'Warranty, Terms and Conditions of Sale', copies of which can be obtained on request. Warranty does not cover suitability, fit for purpose or any consequential or related damages. Please review warranty in detail before installing the products.

Products Included In This System

BONDED		
Primer	Polymer 70 primer @ 0.1 kg/m ² Polymer 70 grout @ 0.2 kg/m ²	M-Bond (M-Bond Extra) @ 0.5 kg/m ² (0.9 kg/m ²)
Min. Screed Thickness	Standard 20mm Heavy Duty 40mm	Standard 15mm Heavy Duty 30mm
Curing	Polythene sheet	Polythene sheet
UNBONDED		
DPM	Proprietary materials	
Reinforcement	Isocrete PP Fibres or D49 steel fabric	
Min. Screed Thickness	Standard 40mm Heavy Duty 40mm (60mm for heavy traffic)	
Curing	Polythene sheet	
FLOATING		
Insulation board/extruded polyethylene	Proprietary materials	
Reinforcement	Isocrete PP Fibres or D49 steel fabric	
Min. 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 weighs 135 kg/m ² @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/m ²
Compound	Isocrete 1500 (3mm) @ 5.1 kg/m ²

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.

System Datasheet written for Flowcrete UK Ltd. Please consult Technical Team in your own country region for specific details. [05/07/21, 01 UK]