Flowcrete
for the world at your feet

Isocrete
floor screeds

Isocrete Screedfast

A specially formulated cement giving a high early strength and very rapid drying screed.

Used for fast track construction and refurbishment projects where the screed needs to be trafficked or overlaid quickly. Isocrete Screedfast 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 Screedfast cement is used in different mix designs with water and M grade sands to provide Screedfast 1000 and Screedfast 2000.

Isocrete Screedfast 2000 will give a Category A screed and will dry to 75% RH in 24 hours at 20°C. Isocrete Screedfast 1000 will give a Category B screed and will dry to 75% RH in 3 to 4 days at 20°C.

Fast Cure:
Early traffic by following trades (3 hours).

Low Shrinkage:
Low shrinkage formulation minimises cracking.

Resistant:
Demonstrates good resistance to abrasion and impact.

Underfloor Heating:
Can be incorporated in underfloor heating.

Technical Profile*

MINIMUM THICKNESS	
With epoxy primer	15 mm
With Isocrete Polymer 70 primer and grout	30 mm
Unbonded	50 mm
Floating Screed (domestic)	65 mm
Floating Screed (all other)	75 mm

	1000	2000
DENSITY (approx.)	1,800–2,000 kg/m³	1,800–2,000 kg/m³
IMPACT RESISTANCE (BS8204 Part1)	Category B	Category A
COMPRESSIVE STRENGTH (28 days) (BS EN 13892-2)	>25 N/mm²	>30 N/mm²
BOND STRENGTH	>1.5 N/mm²	>1.5 N/mm²

SPEED OF CURE** (for 50 mm screeds)	1000		2000	
	10°C	20°C	10°C	20°C
Working Time	25 mins	15 mins	25 mins	15 mins
Light Foot Traffic	5–10 hrs	5 hrs	3–6 hrs	3 hrs
Full Traffic	3 days	2 days	2 days	1 day
Drying Time to 75% RH (BS8203)	4–8 days	3–4 days	2 days	1 day

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

Mix Designs (up to 75 mm)

MATERIALS REQUIRED (KG)	1000	2000
Isocrete Screedfast cement	25 kg	25 kg
0/4mm (MP) category 1 sand**	125 kg	100 kg
Water (approx)	8 kg	8 kg
Approx.	1:4 by vol.	1:3 by vol.

**BS 13139:2002

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

CE 17
EN 13813

www.flowcrete.co.uk

Model Specification

System	Isocrete Screedfast (1000 / 2000)

Bonded with epoxy bonding agent: Isocrete Screedfast 1000 (or 2000) to be supplied and laid bonded with M-Bond epoxy bonding agent to a suitable sound, uncontaminated, shotblasted and vacuum cleaned in situ concrete base, in accordance with the manufacturers instructions.

Bonded with polymer bonding agent: Isocrete Screedfast 1000 (or 2000) to be supplied and laid bonded with Isocrete Polymer 70:Screedfast cement grout to a suitable sound, uncontaminated, shotblasted and vacuum cleaned in situ concrete base in accordance with the manufacturers instructions.

Unbonded: Isocrete Screedfast 1000 (or 2000) to be supplied and laid unbonded on a suitably applied bituminous DPM and reinforced throughout with Isocrete PP fibres in accordance with the manufacturers instructions.

Preparatory work and application in accordance with manufacturer's instructions. Model specifications are also available for various other screed configurations (e.g. bonded – epoxy DPM and bonding agent, floating). Please consult Flowcrete Technical Advisors. Use epoxy bonding agent to ensure optimum drying time is achieved. Use Polymer 70 bonding agent where rapid drying is not required.

Substrate Requirements

Concrete or screed substrate should be a minimum of 25N/mm^2, free from laitance, dust and other contamination. The substrate should be dry to 85% RH as per BS8203 and free from rising damp and ground water pressure. When above 75% RH, or no damp proof membrane is present, use M-Bond or M-Bond Extra, enabling the immediate installation of moisture sensitive floor finishes once the screed has dried. For further details consult our Technical Advisors.

Products Included In This System

Primer	Isocrete Polymer 70 primer @ ~0.05 kg/m^2
Grout	Isocrete Polymer 70 grout @ ~0.05 kg/m^2 of polymer
Or, primer	M-Bond (Red) @ ~0.45 kg/m^2
Or, combined primer and DPM	1st coat M-Bond (Red) @ ~0.45 kg/m^2 2nd coat M-Bond Extra (Black) @ ~0.35 kg/m^2
Screed	Category A - Screedfast 2000 @ 22 kg/m^2 (50 mm) Category B - Screedfast 1000 @ 15 kg/m^2 (50 mm)
Curing (if required)	Polythene sheet

Detailed application instructions are available upon request.

Protection on Completion

For thin screeds, warm conditions or screeds laid on an epoxy bonding agent cover with polythene sheet immediately after laying and leave for 6–10 hours before removal. Otherwise, covering is not required – giving the best conditions for the screed to dry out.

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.

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.

System Datasheet written for Flowcrete UK Ltd. Please consult Technical Team in your own country region for specific details. [13/02/19, 01 UK]

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