

Isocrete Screedfast

Mix designs (up to 75 mm)

Isocrete Screedfast 1000

Isocrete Screedfast cement	25 kg
0/4mm (MP) category 1 sand*	125 kg
Water (approx)	8 kg

Approx. 1:4 by vol.

Isocrete Screedfast 2000

Isocrete Screedfast cement	25 kg
0/4mm (MP) category 1 sand*	100 kg
Water (approx)	8 kg

Approx. 1:3 by vol.

* BS 13139:2002

Description

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

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.

Uses

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.

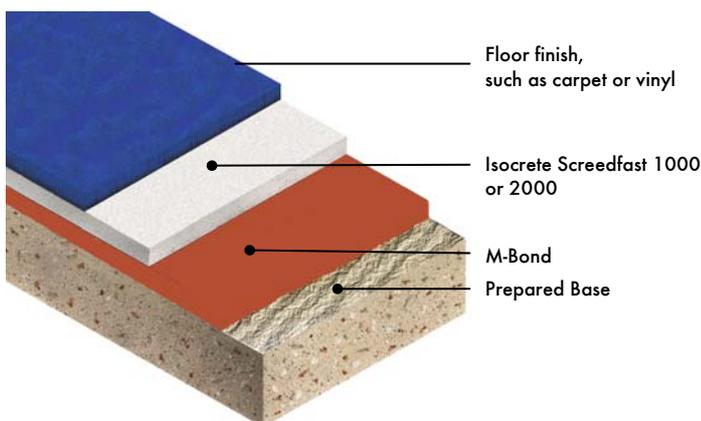
Benefits

- Early traffic by following trades (3 hours)
- Hand applied
- Can be applied on substrates up to 85% RH
- Early installation of sensitive finishes (24 hours)
- Excellent workability properties - easy to use
- Low shrinkage - minimises cracking
- High abrasion and impact resistance

Project References

Bhs; Curry's and Dixons; Debenhams; Gatwick Airport; Hilton Hotels; PC World; Royal Exchange Theatre.

TYPICAL SECTION SHOWING SCREDFAST BONDED WITH EPOXY BONDING AGENT (M-BOND)



Model Specifications

Product: Isocrete Screedfast (1000 / 2000)
Preparatory work and application in accordance with manufacturers instructions. Manufacturer: Flowcrete UK Ltd

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.

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.

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 web site www.flowcrete.co.uk.

Products included in this system

Primer: Isocrete Polymer 70 primer @ ~0.05 kg/m²

Grout: Isocrete Polymer 70 grout @ ~0.05 kg/m² of polymer

Or, primer: M-Bond (Red) @ ~0.45 kg/m²

Or, combined primer and dpm: Isocrete M-Bond Extra
1st coat M-Bond (Red) @ ~0.45 kg/m²
2nd coat M-Bond Extra (Black) @ ~0.35 kg/m²

Screed: Isocrete Screedfast:
Category A - Screedfast 2000 @ 22 kg/m² (50 mm)
Category B - Screedfast 1000 @ 15 kg/m² (50 mm)

Curing (if required): polythene sheet
Detailed application instructions are available upon request.

Minimum screed thicknesses:

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

Technical Information

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

	Screedfast 1000	Screedfast 2000
Density (approx.)	1,800 - 2,000 kg/m ³	1,800 - 2,000 kg/m ³
Impact Resistance (BS8204 Part1)	Category B	Category A
Compressive Strength (28 days) (BS EN 13892-2)	>25 N/mm ²	>30 N/mm ²
Bond Strength	>1.5 N/mm ²	>1.5 N/mm ²

Speed of Cure

For 50 mm screeds

	Screedfast 1000		Screedfast 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

Substrate Requirements

Concrete or screed substrate should be a minimum of 25N/mm², free from laitance, dust and other contamination. The substrate should be dry to 85% RH as per BS8204 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 please consult our Technical Advisors.

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'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.