

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 can be utilised in bonded (15 mm min.), unbonded (50 mm min.) or floating (65 or 75 mm min.) screed constructions.

Isocrete Screedfast cement is used in different mix designs with water and M grade sands to provide Screedfast 1000 and Screedfast 2000.

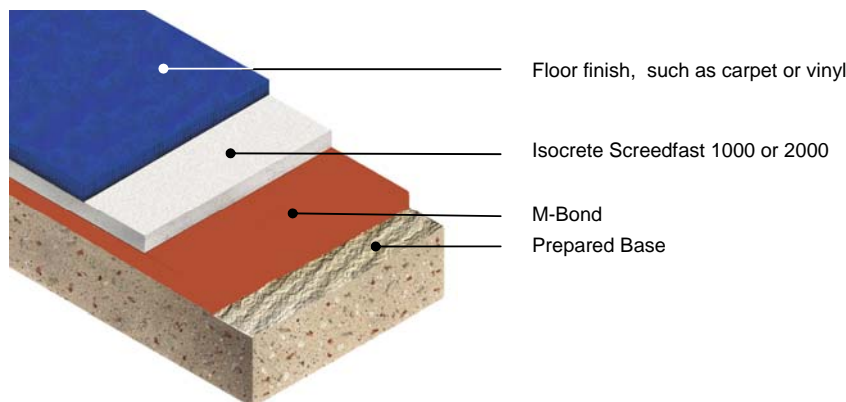
Benefits

- Early traffic by following trades (3 hours)
- 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; Currys and Dixons; Debenhams; Gatwick Airport; Hilton Hotels; PC World; Royal Exchange Theatre.

TYPICAL SECTION SHOWING SCREEDFAST 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 should be carried out by an Isocrete Screedfast 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

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

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.

System Performance Guide

The table below shows how well the system complies with different characteristics.

A scale of 1 – 5 where 5 is the best value.

5 Excellent, 4 Very Good, 3 Good (Pass), 2 Fair, 1 Poor

Isocrete Screedfast 1000

Fire Safety	5	Shrinkage	3
Compressive Strength	3	Drying Time	4
Impact Resistance	3	Wear Resistance	2
Thermal Resistance	4	Foot Traffic	4

Isocrete Screedfast 2000

Fire Safety	5	Shrinkage	3
Compressive Strength	4	Drying Time	5
Impact Resistance	4	Wear Resistance	3
Thermal Resistance	4	Foot Traffic	5

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 196)	>25 N/mm ²	>30 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 75% RH as per BS8204 and free from rising damp and ground water pressure. If above 75% RH, or no damp proof membrane is present, use M-Bond Extra, enabling the immediate installation of floor finishes once the screed has dried.

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% 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.

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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