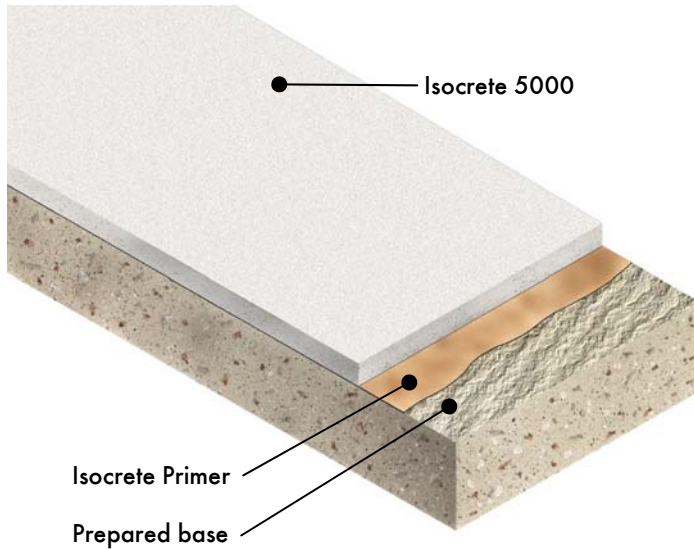


Isocrete 5000 (Green) (3 - 50 mm)

Typical Cross Section



Description

Manufactured from a combination of natural and recycled raw materials and is free from Portland cement. A single component screed for levelling concrete floors, patching existing screeds and filling holes in a base where fast drying is essential. Isocrete 5000 is hand applied by trowel.

Uses

For fast track refurbishment and new construction where finishes such as carpets, ceramic tiles, wood block or cork need to be applied quickly.

A smoothing compound such as Isocrete 1500 may be required for thin floor finishes.

Used for smoothing floors in office buildings, dwellings, public buildings, schools, hospitals and other places exposed to similar loads.

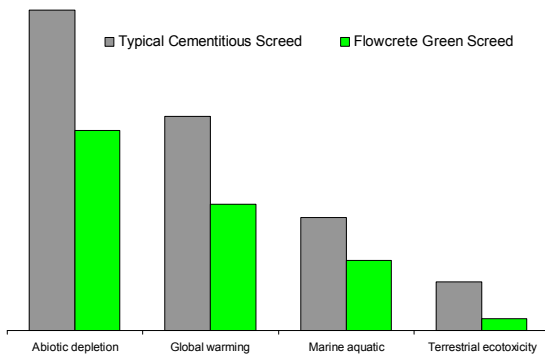
For a screed to receive an epoxy resin finish in areas taking light traffic use Isocrete 1500. For a flowing screed for industrial use, use Flowscreed Industrial Top.

Benefits

- Fast track application
- Fast setting - walk on after 2 - 4 hours under normal conditions
- Fast drying - normally cover after 1 - 5 days, dependent upon thickness and ambient conditions
- Single pack
- Protein free - will not harbour bacteria

Focus on the Floorzone

Flowcrete are market leaders in specialist industrial and commercial flooring. Systems available include: underfloor heating systems, floor screeds, surface damp proof membranes, decorative floor finishes, seamless terrazzo, car park deck waterproofing, corrosion protection systems... to name just a few. Our objective is to satisfy your Floorzone needs.



Environmental analysis – SimaPro; method: CML2 baseline 2000 V2.04

Abiotic depletion is related to extraction of minerals and fossil fuels due to inputs in the system.

Climate change (Global warming) can result in adverse affects upon ecosystem health, human health and material welfare. Climate change is related to emissions of greenhouse gases to air and is expressed in CO₂ emission.

2 categories expressed as 1,4-dichlorobenzene equivalents/kg emission:

Marine eco-toxicity refers to impacts of toxic substances on marine ecosystems

Terrestrial eco-toxicity refers to impacts of toxic substances on terrestrial ecosystems

Where specific raw materials were missing from the ECOINVENT data base, the nearest available equivalent raw material was used for calculation purposes.

Transportation impact of raw materials to our factory for all products not included.

The global footprint is estimation for comparison purpose and should not be presented as a full study according to existing ISO standard.

Model Specification

Product: Isocrete 5000

Thickness: _____ between 3 - 50 mm

Preparatory work and application in accordance with manufacturer's instructions.

Manufacturer: Flowcrete UK Ltd

Telephone: Customer Service - +44 (0) 1270 753000

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 Primer @ 0.05 kg/m²

Or, if dpm required:

DPM: Hydraseal DPM @ 0.5 kg/m²

Sand scatter: dry Silica Sand/Quartz grade 1-2mm @ 2 kg/m²

Floor Screed: Isocrete 5000 @ 45 kg/m² for 25 mm

Detailed application instructions are available upon request.

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 BS 8204 and free from rising damp and ground water pressure. If above 75% RH, or no damp proof membrane is present, Hydraseal DPM can be incorporated directly beneath the Isocrete 5000 system, enabling the immediate installation of floor finishes once the screed has dried.

Technical Information

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

Fire Resistance	BS 476-7: Spread of flame Class 1
Impact Resistance	BS 8204-1 Cat: A
Thermal Resistance	50°C max
Compressive Strength (28 days)	20 N/mm ² (BS EN 13892-2)
Flexural Strength (28 days)	6 N/mm ² (BS EN 13892-2)
Adhesion to C30 Concrete (28 days)	> 1N/mm ²
Shrinkage	< 0.06%
Maximum particle size	2.0 mm
Protein content	Nil
Thickness	3 – 50 mm
Laying temperature	5 – 25°C
Mix ratio per 25kg	3.5 – 3.9 litres water

Speed of Cure

	10°C	20°C
Walk on	4 – 8 hours	2 – 4 hours
Full traffic	3 days	3 days

Protection on Completion

Ensure the screed is not subject to draughts and strong sunlight during the first 24 hours of curing as this may lead to cracking and crazing.

Tape up doorways with polythene to prevent air movement during application. Prevent contamination by following trades, e.g. plastering, including water spillage.

Drying Time

Moisture sensitive floor finishes can be installed when the screed is dry to 75% RH as per BS 8204, typically after 1 – 5 days dependent on thickness and ambient conditions (20°C, 50% RH).

After 24 hours curing without draughts, ensure the area has sufficient ventilation to allow the screed to dry.

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.