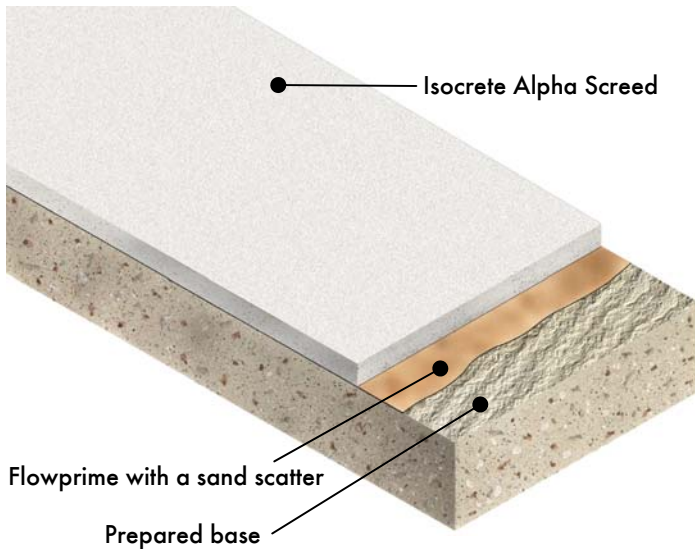
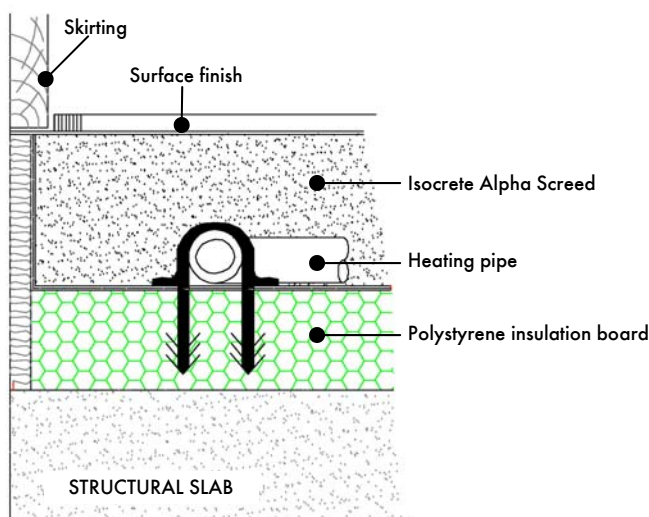


## Isocrete Alpha Screed (20 - 60 mm)

### Typical Bonded Cross Section



### Typical Isowarm Cross Section



### Description

Isocrete Alpha Screed is a pump applied self levelling floor screed, manufactured from a combination of natural sand and recycled alpha hemi-hydrate calcium sulphate binder.

### Uses

For sub floor levelling, providing an ideal smooth, flat surface for the application of thin floor coverings, tiles and other specialist finishes and toppings.

Not suitable in applications that may be exposed to regular or permanent water contact.

### Benefits

- Minimal cracking and no curling, - no construction joints
- Laitance free surface
- Foot traffic in 24 hours
- Following trades in 3 - 4 days, dependant on ambient conditions
- Self compacting.
- Compatible with Isocrete Alpha Smoothing Compound
- Can be incorporated in underfloor heating (can commission after 3 days)
- High final strength, BRE Test Category A. (BS8204)
- Fast application, from 250 - 2,000 m<sup>2</sup> per day
- Protein free, will not harbour bacteria
- Weight saving due to low design thicknesses
- Environmentally friendly product

### Environmental aspect

The raw material for the alpha hemihydrate calcium sulfate binder is a by-product, arising from the de-sulfurisation of coal power station flue gas. In this process, the flue gases are not discharged from chimneys direct to atmosphere but passed through a bed of lime or limestone and react to form the by-product calcium sulfate.

## Model Specification

Product: Isocrete Alpha Screed  
Thickness: \_\_\_\_\_ between 20 - 60 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 should be carried out by a licensed contractor 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.co.uk](http://www.flowcrete.co.uk).

## Substrate Requirements

Concrete or screed substrate should be a minimum of 25N/mm<sup>2</sup>, free from laitance, dust and other contamination. For bonded construction 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 Alpha Screed system, enabling the immediate installation of floor finishes once the screed has dried.

## Products Included in this System

### Bonded

**Primer:** Flowprime @ 0.3 kg/m<sup>2</sup> per coat  
(2 coats may be required on porous surfaces)  
Minimum Alpha Screed Thickness 20 mm

### Unbonded

Dpm: Proprietary materials  
Minimum Screed Thickness 30 mm

### Floating

Insulation board / extruded polyethylene Proprietary materials  
Minimum Screed Thickness 30 mm

### Underfloor heating

Underfloor heating system Proprietary materials  
Minimum cover to uhf pipes 15 mm\*  
\* Minimum 700 kg of Isocrete Alpha Binder per cubic metre of screed with specified sand and water content.

## Priming

### For resin and cementitious products

Isocrete Isoseal 1<sup>st</sup> Coat @ 0.20 kg/m<sup>2</sup>  
Isocrete Isoseal 2<sup>nd</sup> Coat @ 0.15 kg/m<sup>2</sup>  
The second coat may be omitted when Isoseal is to be overcoated with Hydraseal DPM.

### For Isocrete Alpha Smoothing Compound

Isocrete Primer @ 0.06 kg/m<sup>2</sup> (undiluted product) per coat  
(Isocrete Primer is diluted 1 part primer to 5 parts water, 2 coats)

Detailed application instructions are available upon request.

## 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.

## Technical Information

The figures that follow are typical properties achieved in laboratory tests at 20°C and at 65% Relative Humidity, mixed with laboratory graded sand 0/4 mm (MP) category 1 to BS 13139:2002.

Fire Resistance	Spread of flame Class 1	BS 476-7
Impact Resistance		BS 8204-1 Cat: A
Thermal Resistance		50°C max
Compressive Strength (28 days)	25 N/mm <sup>2</sup>	BS EN 13892-2
Flexural Strength (28 days)	6 N/mm <sup>2</sup>	BS EN 13892-2
Adhesion to C30 Concrete (28 days)	> 1 N/mm <sup>2</sup>	
Drying movement	< 0.04% (expansion)	
pH	< 11.5	
Protein content	Nil	
Thickness	20 - 60 mm	
Laying temperature	5 - 30°C	
Flow ring test (DIN 1060)	230 - 260 mm	
Foot traffic	24 hrs	
Dependant on the ambient temperature and Relative Humidity		
Wet density (approx.)	2,200 kg/m <sup>3</sup>	
Dry density (approx.)	2,000 kg/m <sup>3</sup>	

## Speed of Cure

Drying time for finishes in good ambient well ventilated conditions, e.g. 20°C, 65% RH  
up to 40 mm thickness typically 0.8 days / mm  
over 40 mm thickness add 2 days / mm

## Drying

Moisture sensitive floor finishes can be installed when the screed is dry to 75% RH as per BS 8204. After 24 hours curing without draughts, ensure the area has sufficient ventilation to allow the screed to dry.

## Protection on Completion

Ensure the screed is not subject to draughts during the first 24 hours of curing as this may lead to cracking and crazing. Tape up doorways and window openings with polythene to prevent air movement during application. Prevent contamination by following trades, e.g. plastering, including water spillage.

## 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.