

## Isocrete Alpha Screed (20 – 60 mm)

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

Isocrete Alpha Screed provides an ideal smooth for sub floor levelling, a flat surface for the application of thin floor coverings, tiles and other specialist finishes toppings. It is not suitable in applications that may be exposed to regular or permanent water contact.



### Rapid Installation:

From 250 - 2,000m<sup>2</sup> per day and foot traffic in 24 hours.



### No curling:

Minimal cracking and no curling. No construction joints either.



### Protein & Laitance Free:

It will not harbour bacteria and no mechanical abrasion required.



### Underfloor Heating:

Can be incorporated in underfloor heating (can commission after 3 days).

## Technical Profile\*

FIRE RESISTANCE		
BS EN 13501-1	A1 <sub>FL</sub> (No contribution to fire)**	
IMPACT RESISTANCE		
BS 8204-1 Category A		
COMPRESSIVE STRENGTH (28 DAYS)		
EN 13892-2	25 N/mm <sup>2</sup> ***	C25
FLEXURAL STRENGTH (28 DAYS)		
EN 13892-2	6 N/mm <sup>2</sup>	F25
ADHESION TO C30 CONCRETE (28 DAYS)		
> 1N/mm <sup>2</sup>		
DRYING MOVEMENT		
< 0.04% (expansion)		
pH		
< 11.5		
PROTEIN CONTENT		
Nil		
LAYING TEMPERATURE		
5 – 30 °C		
FLOW RING (DIN 1060)		
230 – 260 mm		
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 ambiente well ventilated conditions, e.g. 20 °C, 65% RH

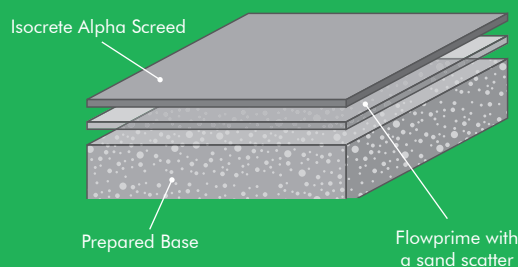
Up to 40 mm thickness	Typically 0.8 days / mm
Over 40 mm thickness	add 2 days / mm

FOOT TRAFFIC	24 hours dependant on the ambient temperature and Relative Humidity (RH).
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\*These figures 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.

\*\*Contains less than 1% organic material and is classified in accordance with BS EN 13501-1 as Class A1<sub>FL</sub> without testing. (Commission Decision 96/603/EC as amended by Decision 2000/605/EC).

\*\*\*Minimum 700 kg of Isocrete Alpha Binder per cubic metre of screed with specified sand and water content.



## Model Specification

<b>Product</b>	Isocrete Alpha Screed
<b>Thickness</b>	20 – 60 mm

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

## Products Included in This System

<b>BONDED</b>	
<b>Primer</b>	Flowprime @ 0.3 kg/m <sup>2</sup> per coat
(2 coats may be required on porous surfaces) Minimum Isocrete Alpha Screed thickness - 20 mm	
<b>UNBONDED</b>	
<b>DPM</b>	Proprietary materials
Minimum Isocrete Alpha Screed thickness - 30 mm	
<b>FLOATING</b>	
<b>Insulation board / Extruded polyethylene</b>	Proprietary materials
Minimum Isocrete Alpha Screed thickness - 30 mm	
<b>UNDERFLOOR HEATING (UFT)</b>	
<b>UFT</b>	Proprietary materials
Minimum cover to UFH pipes - 15 mm* *Minimum 700 kg of Isocrete Alpha Binder per cubic metre of screed with specified sand and water content.	
<b>PRIMING</b>	
<u>For resin and cementitious products</u> Isocrete Isoleal 1 <sup>st</sup> Coat @ 0.20 kg/m <sup>2</sup> Isocrete Isoleal 2 <sup>nd</sup> Coat @ 0.15 kg/m <sup>2</sup> The 2 <sup>nd</sup> coat may be omitted when Isoleal is to be overcoated with Hydraseal DPM.	
<u>For Isocrete Alpha Smoothing Compound</u> 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.

## 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, tested in accordance with BS 8203 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, enabling the immediate installation of floor finishes once the screed has dried.

## Installation Service

The installation can be carried out by a licensed contractor with a document quality assurance scheme. Obtain details of our licensed contractors by contacting our customer service team or enquiring via our website [www.flowcrete.co.uk](http://www.flowcrete.co.uk).

## Drying Time

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. Prevent contamination by following trades e.g. plastering, including water spillage.

## Environmental Aspect

The raw material for the alpha hemihydrate calcium sulfate binder is a by-product, arising from the se-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.

## Important Notes

Flowcrete products are guaranteed against defective materials and manufacture and are sold subject to our 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.

System Datasheet written for Flowcrete UK Ltd. Please consult Technical Team in your own country region for specific details.  
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