

# Flowcrete

for the world at your feet

# Isocrete

floor screeds

## ISOCRETE FLOOR SCREEDS



Airports



Retail



Stadia



Healthcare



Education



Leisure

## Isocrete Floor Screeds

Flowcrete's range of self levelling Isocrete Floor Screeds - ideal for both new build and refurbishment projects.



Hidden away and less visible than many other construction products, Isocrete Floor Screeds have a vital role to play within the construction sector, in both new-build and refurbishment developments. Since 1969, Isocrete Floor Screeds have been the product of choice for architects and specifiers on some of the world's most prestigious projects. All over the globe, Isocrete has been used extensively across a broad range of developments, including airports, hospitals, stadia, shops, shopping centres, schools, public buildings, colleges and universities.

Modern construction programmes place great demands in the products they use. Today's floor screed systems need to be fast, strong, safe and able to cope with the rigorous techniques and methods undertaken throughout the world. The Flowcrete Group is committed to the development of sustainable and environmentally friendly products and Isocrete Floor Screeds are no exception. Our screeds use by-products from heavy industry waste streams and they reduce clean water consumption in screed construction.

## Fast Track Refurbishment & Repair

Flowcrete's range of fast drying Isocrete Floor Screeds - designed to speed up construction programme times.

Isocrete Floor Screeds guarantee to speed up programme times in all construction projects, allowing for the early installation of moisture sensitive finishes. Flowcrete is revolutionising the floor screed industry by promoting machine installation, which enables Isocrete K-Screed to be installed up to four times the speed of traditional screeds. Construction schedules are drastically reduced thanks to the use of automated mixing, pumping and laying machines which are purpose built for use with Isocrete K-Screed.

Fast track products including Isocrete Self Level Renovation, PHS and Screedfast give a reliable and durable solution when work needs to be carried out at speed. Floor Screeds are ideal for the renovation of floors in office buildings, shops, public buildings, schools, hospitals, airports and prisons where the screed needs to be trafficked or overlaid soon after the installation. Our penetrating and hardening systems are capable of restoring failed cement/sand screeds to their original condition with minimal downtime and disruption.



## Isocrete Acoustic K-Screed & Isowarm Under Floor Heating

Flowcrete's range of acoustic insulating screed and under floor heating systems - delivering a warm and quiet environment.



The latest addition to be added to our Isocrete Floor Screed range is a pioneering acoustic flooring solution, designed to reduce noise levels within multi-occupancy and multi-purpose buildings, helping architects and project managers to comply with both Approved Document E and Scottish Technical Handbook Section 5 for house builders. Isocrete Acoustic K combines noise reduction efficiency with the time proven performance of Isocrete Floor Screeds.

Isowarm Under Floor Heating provides invisible, controllable heat, providing warmth on demand, whilst at the same time delivering economic, environmental and efficiency savings. Isowarm is geared up to the specialist needs of modern style and design.

Isocrete Acoustic K can be used in conjunction with Isowarm to produce a quiet and warm environment and is the basis of Flowcrete's unique single responsibility Floorzone solution. Isocrete products are installed by highly trained licensees, guaranteeing peace of mind and satisfaction.

## Isocrete Floor Screeds Product Selector

**ISOCRETE -**

the level best in floor screeds



	Description	Uses	Foot Traffic	Floor Finish	Thickness (mm)
Isocrete K-Screed	Strong and quick drying trowel applied proprietary cement sand screed.	Standard K-Screed for general commercial use.	36 hours	After curing normally 1 week / 25mm under suitable conditions.	20 - 100+
Isocrete Heavy Duty K-Screed	Systems available for weight saving, thermal insulation and impact sound insulations.	Heavy Duty K-Screed for highly trafficked areas.	36 hours	After curing normally 1 week / 25mm under suitable conditions.	40 - 100+ (refer to literature)
Isocrete Fast K-Screed	Fast drying and rapid hardening trowel applied screed.	Accelerated screed for early strength and rapid drying.	6 - 8 hours	7 days / 50mm thickness under suitable conditions.	20 - 100+
Isocrete Screedfast	Rapid hardening cement for rapid drying screeds.	Ideal screed for fast track refurbishment contracts.	3 hours	1 day (Screedfast 2000) 3 days (Screedfast 1000)	30 - 100+ (refer to literature)
Isocrete Isotex	Cement based hand applied smoothing compound.	Universal underlayment for thin floor finishes.	2 - 4 hours	1 day / 10mm	0 - 10
Flowcem	A unique epoxy modified self-levelling screed that acts as a surface damp proof membrane.	Allows installation of moisture sensitive floor finishes, saving labour and time.	16 hours	2 days under suitable conditions.	2
Isocrete 1500	Single component, pre mixed, high strength self-levelling cement based flooring compound. Rapid drying. Protein free.	Universal underlayment which can be applied by hand or pump.	2 hours	1 day / 10mm	0 - 20 hand applied 4 - 20 pump applied
Isocrete 4000	Single component, very fast drying premixed screed. Protein free.	Used where fast drying or thicker underlayment is required. Hand applied.	1 hour	4 hours / 10mm	0 - 50
Isocrete 5000	Single component, pre mixed, cement based levelling screed.	Quick hardening screed for levelling concrete floors. Hand applied.	2 hours	Normally cover after 1 - 5 days dependant upon thickness and ambient conditions.	3 - 50
Isocrete Self Level Plus	Pumped self-levelling, pre mixed, cement based underlayment. Protein free.	Pump applied self levelling screed for commercial use.	2 - 4 hours	1 day under suitable conditions.	4 - 30 up to 2000m <sup>2</sup> per day can be laid.
Isocrete Self Level Base	Pumped self-levelling, pre mixed, cement based underlayment. Protein free.	Thicker underlayment for use on out of level concrete floors.	2 - 4 hours	1 - 3 days under suitable conditions.	5 - 50 up to 2000m <sup>2</sup> per day can be laid.
Isocrete Self Level Renovation	Cementitious, fibre reinforced, pre mixed, pumped self-levelling underlayment. Protein free.	Self-levelling underlayment for renovation of existing floors with the ability to overlay existing floor finishes.	2 - 4 hours	1 day under suitable conditions.	15 - 50
Hydraseal DPM	Surface damp proof membrane for controlling residual construction moisture. Allows early installation of moisture sensitive floor finishes.	Used with self levelling screeds as an epoxy resin surface damp proof membrane to allow early installation of moisture sensitive floor finishes.	1 day	1 day under suitable conditions.	< 1
Isopol SBR	Polymer modified wearing screed.	Wearing screed for heavy duty and industrial flooring.	36 hours	After curing normally 1 week / 25mm under suitable conditions.	10 - 100+
Isocrete Isogran	Polymer modified granolithic wearing screed.	Wearing screed for medium duty commercial and industrial floors.	3 days	N/A	Bonded 20 - 80
Isocrete M-Bond / M-Bond Extra	Epoxy resin bonder. At 2 coats a combined bonder / damp proof membrane for screeds.	Used with K-Screed as an epoxy resin bonder damp proof membrane.	24 hours	After curing of K-Screed, normally 1 week / 25mm under suitable conditions.	Used with K-Screed 15 - 100+
PHS	Ultra low viscosity, solvent free liquid for restoration of failed cement / sand screed.	To re-strengthen and / or re-bond defective cement / sand screed.	8 hours	12 hours under suitable conditions	N/A

## Heavy Duty Floor Screeds

Fast drying, heavy duty, cementitious levelling screeds incorporating proprietary additives to produce early drying, high strength screeds.

### Isocrete K-Screed

A strong and quick drying trowel applied modified sand and cement screed.



Isocrete K-Screed is a semi-dry cementitious screed, incorporating proprietary additives to produce an early drying and high strength screed with excellent impact resistance. The system can be modified to produce Heavy Duty K-Screed, suitable for high traffic areas such as concourse and mall areas. The ultimate in high performance floor screeds and the most commonly specified from the range, Isocrete K-Screed allows the early installation of sensitive finishes, while its low shrinkage formulation minimises the risk of cracking.

Isocrete K-Screed speeds up construction programme times significantly, with earlier foot traffic allowing faster access on site for follow on trades due to its high strength. Approved by the BBA, Isocrete K-Screed is installed under warranty by a trained Isocrete licensee.

Emirates Stadium, UK    Chek Lap Kok Airport, Hong Kong  
Festival City, Dubai.    Wynn Resort & Casino, Macau.

### Isocrete Fast K-Screed

A fast drying and rapid hardening trowel applied screed.



Isocrete Fast K-Screed is a semi-dry cementitious screed incorporating proprietary accelerating, water reducing and shrinkage compensation additives to give a high early strength and a rapid drying screed. Due to the rapid drying properties of Isocrete Fast K-Screed, it is the first choice for fast track construction and refurbishment projects where the screed needs to be trafficked or overlaid quickly, allowing a significant reduction in construction programme time.

Both Standard Isocrete Fast K-Screed and Heavy Duty Isocrete Fast K-Screed can be utilised in bonded, un-bonded or floating screed constructions. Standard Isocrete Fast-K Screed is suitable for most commercial applications, including stadia, shopping centres, hospitals, schools and retail outlets. Heavy Duty Isocrete Fast-K Screed is recommended in heavily trafficked areas of commercial buildings.

Festival Walk Shopping Centre, HK.    Capital Towers, UAE.  
Texas A&M University, Qatar.    University of Cambridge, UK.

### Isocrete Screedfast

A special cement for very rapid hardening and drying screed.



A specially formulated and easy to install cement designed for use as a quick drying screed, with high early strength. Isocrete Screedfast is ideal in fast-track refurbishment programmes where the screed needs to be trafficked or overlaid quickly by following trades.

Isocrete Screedfast 2000 gives a category "A" screed and will dry to 75% RH in 1 day under suitable conditions, whilst Isocrete Screedfast 1000 will give a category "B" screed and will dry to 75% RH in 3 to 4 days under suitable conditions.

The low shrinkage nature of Isocrete Screedfast minimises cracking and the finish is strong and impact resistant. Due to the speed of its installation and cure, it allows following trades to be on site within 3 hours of installation.

The Shires Shopping Centre, UK.    Gatwick Airport, UK.  
Glasgow Airport, UK.    Royal Exchange Theatre, UK.

## Self Levelling Floor Screeds

Strong, fast drying and self levelling cementitious screeds for fast-track application on uneven or problematic substrates.

### Isocrete 1500

A high strength self smoothing cement based flooring compound.



Isocrete 1500 is a fast drying, cement based underlayment, allowing surfaces to be easily levelled prior to the installation of floor coverings such as vinyl, carpets, ceramic and tiles where heavy foot traffic is anticipated.

Isocrete 1500 will cure to receive foot traffic within 4 hours and will dry out to receive moisture sensitive floor finishes within 24 hours under suitable conditions.

For both fast track refurbishment and new construction programmes where floor finishes need to be applied quickly, Isocrete 1500 allows rapid installation by pump or hand and due to its self smoothing properties is ideal for smoothing floors in a wide range of buildings including shops, offices, hospitals and stadia. Isocrete 1500 may also be used as a screed to receive an epoxy resin finish in areas taking light traffic.

Wembley Stadium, UK.    Air Asia, Malaysia.  
Marks and Spencer, UK.    Urban Splash, UK.

### Isocrete 4000 & Isocrete 5000

Single component, pre-mixed, levelling screeds.



Isocrete 4000 and 5000 are hand applied single component quick hardening cement based screeds used for smoothing floors in homes, offices, schools and public buildings. Isocrete 5000 can be laid to falls in wet areas such as changing rooms.

Isocrete 4000 dries very quickly and can normally be covered after four hours. Isocrete 4000 is typically used for filling holes or depressions and for smoothing floors in public buildings, schools, hospitals and other environments exposed to similar loads.

Isocrete 5000 is usually applied in thicker layers and allows covering to take place between one and five days. Isocrete 5000 is also ideal for quickly levelling concrete floors, patching existing screeds and filling holes in a substrate.

Britannia Leisure Centre, UK.    The Roundhouse Theatre, UK.  
Holmes Place Health Club, UK.    The House of Lords, UK.

### Isocrete Self Level Renovation

A pumped self levelling underlayment for renovation.



Isocrete Self Level Renovation is a fast drying, pump applied, fibre reinforced (with glass fibre mesh) solution for the renovation of defective floors. Isocrete Self Level Renovation can be laid over existing floor finishes to provide a strong base for floor coverings such as tiles, carpet or cork in buildings such as shops, airports, hospitals and shopping centres.

The addition of polypropylene fibres in the cement, combined with the glass fibre mesh gives Isocrete Self Level Renovation excellent crack resistance in sensitive installations.

Isocrete Self Level Renovation can be laid at between 5 - 50mm depending on the individual requirements of the project. Isocrete Self Level Renovation may be used as a screed to receive an epoxy resin floor finish in areas taking light traffic.

O2 Arena, UK.    Novartis, Malaysia.  
Boots, UK.    Heathrow Airport, UK.

## High Performance Underlayments

Fast drying, strong, cement-based underlayments for the easy levelling of screed or concrete prior to the installation of floor finishes.

### Isocrete Self Level Base & Self Level Plus

Pumped self smoothing cement based underlayments.



Isocrete Self Level Base is a fast drying, hand or pump applied cement based levelling screed, used to level the surface prior to the installation of other Flowcrete products such as Isocrete Self Level Plus, Isocrete Self Level Renovation and Isocrete 1500, or on its own under thicker floor coverings such as carpet or wood.

Isocrete Self Level Base, laid up to 50mm, benefits from rapid installation and delivers the same fast setting and drying properties as Isocrete Self Level Plus.

Isocrete Self Level Plus is a pump applied cement based underlayment and provides a more refined base for floor coverings in areas such as shops, public buildings, schools, hospitals, airports and prisons.

Isocrete Self Level Plus can be laid up to 30mm and can be walked on after 2-4 hours under suitable conditions.

Universal Square, UK. Hugo Boss, UK.  
University of Birmingham, UK. Imperial College, UK.

### Flowcem

An epoxy modified cementitious, self smoothing screed.



Flowcem is an easy to apply, technically advanced, self smoothing screed, comprising epoxy modified cement and allows excellent adhesion to damp concrete and screeds - significantly reducing undulation on existing substrates.

Flowcem is a three component system which acts as a surface damp proof membrane and underlayment allowing the early installation of moisture sensitive floor finishes onto concrete and cementitious screeds which have a moisture content of up to 100% relative humidity, thereby significantly reducing programme labour and construction time.

Flowcem is ideal for use in buildings such as schools, hospitals, shops, shopping centres and other commercial environments where the rapid installation of a final floor finish is required. Flowcem must be allowed to dry before over coating which will take 2 days under suitable conditions.

GlaxoSmithKline, Australia. IKEA, China.  
Curve Shopping Mall, Malaysia. Lexus, Australia.

### Isocrete Isogran & Isocrete Isopol SBR

Polymer Modified wearing screeds.



Isogran is a polymer modified granolithic wearing screed providing a tough, hard wearing floor, ideal for heavy duty use in buildings such as workshops, plant rooms, store rooms and service corridors.

Isogran, incorporating Isocrete Polymer 70, offers great benefits for anyone looking for a heavy duty screed which is resistant to impact damage and surface wear.

Isopol SBR is a styrene butadiene (SBR) polymer latex screed additive and bonding agent and is used for heavy duty, rapid drying, levelling screeds to receive various types of floor finishes.

Isopol SBR can be applied where a low thickness polymer modified wearing screed is required for heavy duty use in back of house service corridors and concourse areas.

Eagle Shopping Centre, UK. Manila Airport, Philippines.  
Queen Elizabeth Hospital, UK. The Royal Observatory, UK.

## Resin Bonded Systems, Surface DPM's & Floor Restoration

DPM's, bonding agents and penetrating hardening systems used to solve excessive relative humidity and to restore the surface of defective screeds.

### Isocrete M-Bond & M-Bond Extra

Epoxy resin combined bonding and damp proofing for screeds.



Isocrete M-Bond is a solvent free, epoxy bonding agent for screed as a single coat bonding agent, while the two coat M-Bond Extra also provides a damp proof membrane.

Isocrete M-Bond is ideal for bonding screeds particularly Isocrete K-Screed, Isocrete Fast K-Screed, Isocrete Screedfast and Isocrete Isogran, whilst the M-Bond Extra system can be used not only as a bonding agent but also to provide a full damp proof membrane (DPM) between the concrete and screed.

M-Bond delivers the advantages of bonded screed construction; it does not require reinforcement nor is the bond affected by the suction of the substrate. M-Bond Extra is ideal for use in shower areas where screeds are laid to falls incorporating a damp proof membrane.

The Eagle Shopping Centre, UK. O2 Arena, UK.  
St James University Hospital, UK. Emirates Stadium, UK.

### Hydraseal DPM

A surface damp proof membrane to control residual construction moisture.



A specialist damp proof membrane designed to work in tandem with full range of Isocrete self smoothing floor screeds. Hydraseal DPM is a solvent and water free, epoxy resin, liquid applied DPM designed to withstand moisture vapour from substrates and therefore allow the immediate installation of floor finishes where moisture is present in the substrate.

Hydraseal one coat system is used for substrates with moisture levels up to 85% RH; the two coat system is used for substrates where the moisture is between 85-100% RH.

Hydraseal enables significant improvements to new construction and refurbishment programmes and protects the final finishes from moisture damage.

Brockwell Lido, UK. Wembley Stadium, UK.  
Ascot Racecourse, UK. University of Manchester, UK.

### PHS

A penetrating hardening system to re-strengthen and refurbish failed cement.



PHS is the floor industry SOS for defective and poorly laid sand/cement screeds and is used to refurbish and re-strengthen, without the need to replace the entire screed.

Ideal where work needs to be completed to a tight deadline, PHS penetrates into defective screed, filling voids and bonding material together to provide a very high strength floor screed.

Isocrete PHS is an ultra low viscosity resin designed to impregnate, re-constitute and re-strengthen failed sand / cement screeds. Used correctly Isocrete PHS can reconstitute a failed screed to achieve a category "A" impact strength rating as per BS 8204 within 24 hours. Isocrete PHS allows very rapid (4 - 6 hours) re-application of floor finishes without the need to remove the underlying screed saving time, money and disruption in refurbishment programmes.

Birmingham Airport, UK. Nat West Bank, UK.  
St James Hospital, UK. ASDA, UK.



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