

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 on 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 ² 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 ² 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



Reg. No. FM 41035

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, unbonded 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.
Marks and Spencer, UK.

Air Asia, Malaysia.
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.
Holmes Place Health Club, UK.

The Roundhouse Theatre, 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.
Boots, UK.

Novartis, Malaysia.
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.

University of Birmingham, UK.

Hugo Boss, 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.

Curve Shopping Mall, Malaysia.

IKEA, China.

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.

Queen Elizabeth Hospital, UK.

Manila Airport, Philippines.

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.



Flowcrete around the world

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*Partner

Flowcrete
for the world at your feet

Isocrete
floor screeds

ISOCRETE K-SCREED - hidden strength



Airports



Retail



Stadia



Healthcare



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Leisure

WELCOME TO FLOWCRETE - for the world at your feet

Flowcrete's commitment to exceptional design, technical support and advisory services, from initial enquiry through to installation, is at the heart of our business philosophy.

Our global success is driven by our commitment to excellence; excellence in products, excellence in service and excellence in people.

With manufacturing plants across Europe, the Americas, Asia and Africa, a global commercial and sales support team and the backing of a major multi-national manufacturing group, Flowcrete is well placed as the world's leading performance flooring designer and manufacturer to serve clients in their local markets.

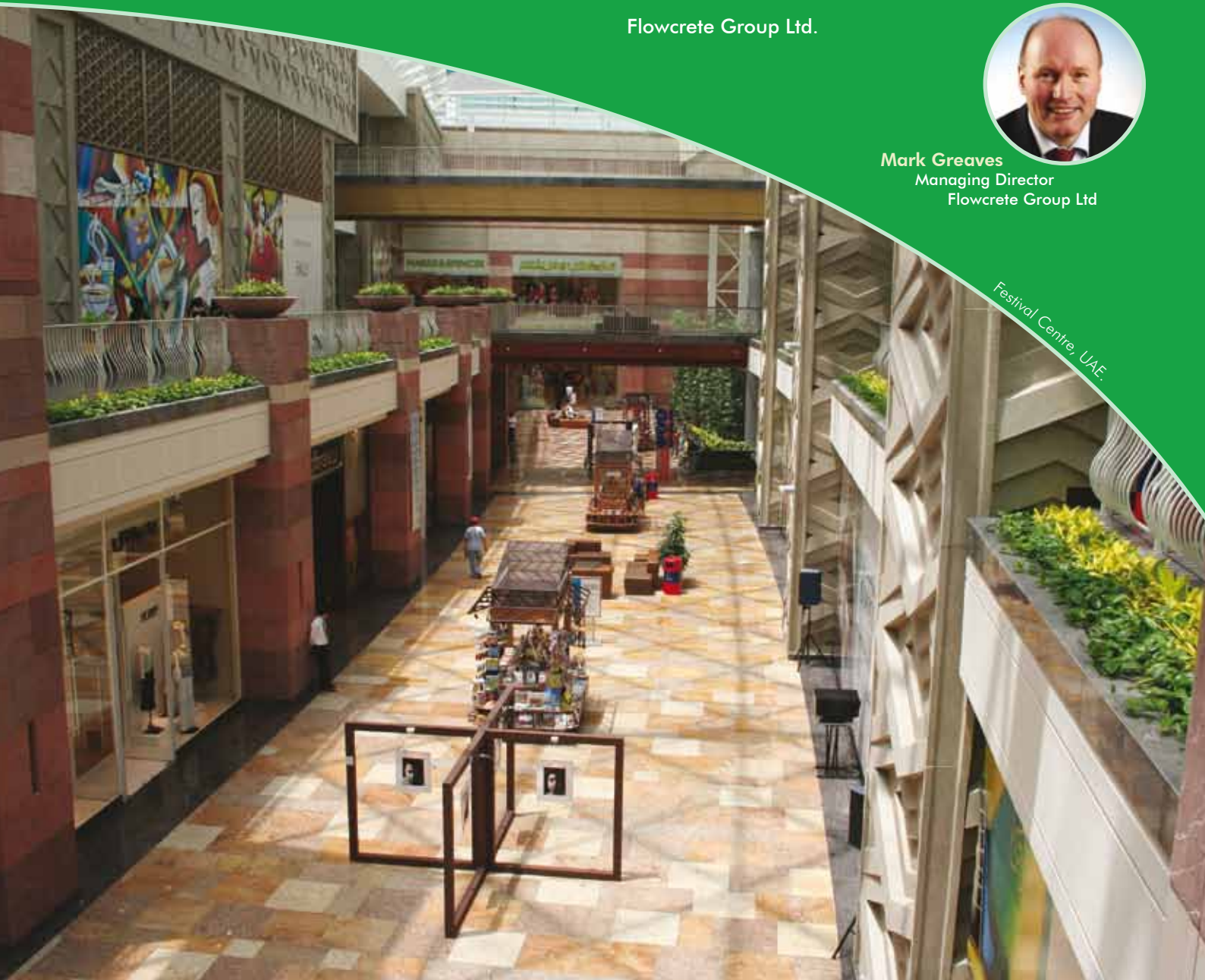
Our fully trained and monitored global network of approved flooring contractors ensures your flooring project is in safe hands with Flowcrete.

Flowcrete Group Ltd.



Mark Greaves
Managing Director
Flowcrete Group Ltd

Festival Centre, UAE.



ISOCRETE K-SCREED - the level best

The key to a strong, reliable and sustainable floor is a quality screed product that will smooth out any lumps or bumps on the surface of the structure prior to the installation of final floor finishes.

Isocrete has been the market leader in floor screeds internationally since 1969 and has been involved in some of the largest and most high-profile screeding contracts to date for clients including Dubai, Chek Lap Kok and Kuala Lumpur International Airports, Wembley Stadium, the Wynn Resort & Casino as well as a number of major shopping centres and hospital complexes.

Known in the industry for delivering 'the level best in floor screeds' our award-winning cementitious screed system, Isocrete K-Screed, combines high strength, rapid installation and excellent moisture control with compatibility to a number of bolt-on sub-floor systems, including underfloor heating and acoustic insulation, to offer the most unbeatable screed product yet.

Containing the innovative K-Additive, a plasticising and accelerating admixture used to modify and enhance the performance of sand and cement based screeds, Isocrete K-Screed is chosen for its ability to deliver a strong level platform on which to lay a host of floor finishes, including tiles, carpet, wood, vinyl, and resin, on the fast track.

Isocrete K-Screed can be machine applied using a revolutionary technique, which has seen enormous improvements to health and safety issues involved in flooring projects. Taking the pressure off the backs and joints of floor screeders, the Isocrete K-Master machine delivers a safer, flatter sub-floor installed up to four times faster than traditional methods.



HIDDEN strength

Despite being hidden from view, Isocrete K-Screed has a proven track record across the globe. The system is known for its ability to deliver environmental and performance benefits that greatly outweigh those of traditional concrete as well as having a more preferable retail price to most self-levelling compounds.

Isocrete K-Screed combines compressive strengths of over 30N/mm² with early drying times as favourable as 3 weeks compared to the typical 11 to 12 weeks associated with ordinary sand cement screeds.

Isocrete K-Screed can be laid at thicknesses ranging from just 15mm to over 100mm and used in areas of tight tolerance or to falls if required. It is also an appealing screed choice for those looking to install thinner section floor finishes like vinyl.

Problems of cracking, curling and debonding, which have long been associated with traditional substrates, are minimised using the Isocrete K-Screed system thanks to inherent moisture control properties, which help to minimise the possibility of screed failure.



DELIVERING superior strength

Since 1969 Isocrete K-Screed has been installed in high-profile airports, car parks, hospitals, shopping centres, stadia and other public buildings across the world including museums, schools, universities, conference centres and hotel resorts.

The system's 'Category A' crushing resistance delivers the strength needed to support heavy-duty commercial environments subject to heavy volumes of foot traffic on a daily basis. The versatility of Isocrete K-Screed means that it can be laid fully bonded, unbonded or floating (for weight saving and thermal or sound insulation) to suit the individual requirements of the project in hand.

The accelerated drying times - up to four times faster - combined with mechanically installed Isocrete K-Screed can translate into major time-saving benefits on large-scale construction projects. This not only significantly reduces the disruption to works at the site but makes it available to following trades under a quick turnaround.



TRANSFORMING COMMERCIAL environme

Wembley Stadium, UK.





Westfield London, UK.

nts

STRONG - With compressive strengths of over 30N/mm² compared to the 15-20N/mm² achieved by typical sand and cement screeds, Isocrete K-Screed is ideal for use in environments subject to high volumes of foot traffic. Correctly installed and covered by a suitable floor finish, the system should have a life-cycle equal to that of the building itself.

FAST - The addition of the innovative K-Additive combined with reduced moisture content allows Isocrete K-Screed to achieve drying and curing times as favourable 3 weeks compared to the typical 11 to 12 weeks associated with ordinary sand cement screeds.

FLEXIBLE - Isocrete K-Screed is available for a range of applications and is suitable for use with in-situ suspended floors, pre-cast concrete floors, beam-and-block floors, ground floor slabs as well as stair treads and risers. The system can be laid fully bonded, partially bonded, unbonded or floating to suit your individual requirements.

MACHINE INSTALLATION - Using the revolutionary Isocrete K-Master installation machine, Isocrete K-Screed can be installed up to four times faster than when using traditional techniques, delivering a smoother flatter sub-floor.

QUALITY - Isocrete K-Screed is manufactured under the International Quality Standard ISO 9001 and British Standard BS 8204-1. The system is also fully certified by the British Board of Agrément certificate No.91/2678, and achieves a 'Category A' acceptance limit of 3mm using the BRE Screed Tester in accordance with British Standard BS 8204-1.



Dubai International Airport, UAE.

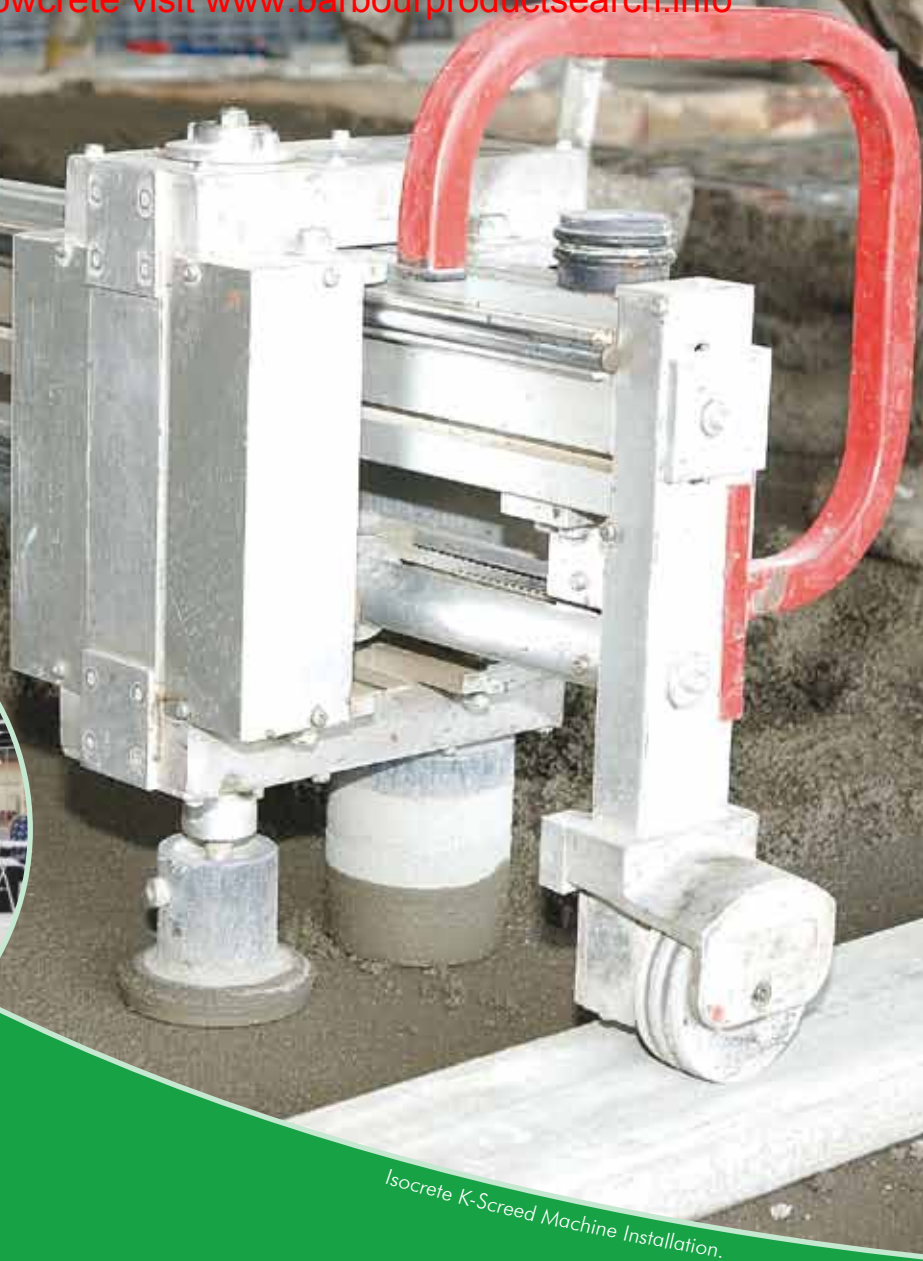
A CHOICE - for all construction projects

From heavy-duty systems, lightweight variations and fast-track applications to a product offering acoustic performance and an energy-saving heat source, the Isocrete K-Screed range of screed materials provides a solution for the diverse needs of today's construction sector.

System	Description	Uses	Benefits
Isocrete K-Screed (Standard)	A semi-dry, cementitious screed incorporating proprietary additives to produce an early drying, high strength screed. Variations for weight-saving and/or thermal insulation are also available.	Ideal for use in commercial environments where a high strength screed needs to be installed quickly – especially those where thinner section floor finishes are to be used.	Compressive strength greater than 30N/mm ² . Allows for early installation of moisture sensitive finishes. Can be laid fully bonded, unbonded or floating.
Isocrete Fast K-Screed (Standard)	A semi-dry cementitious screed incorporating proprietary accelerating, water reducing and shrinkage compensation additives to deliver a high strength, rapid drying screed.	Ideal for fast-track construction and refurbishment projects where a strong floor screed needs to be trafficked or overlaid at an exceptional speed.	Can be walked on by following trades in just 8 hours. Plasticising properties provide a workable mix at a very low water : cement ratio. Meets BRE 'Category A' strength requirements.
Heavy Duty Isocrete K-Screed	A semi-dry, cementitious screed, incorporating proprietary additives to produce an early drying, ultra-high strength screed.	Recommended in areas where heavy traffic is present on a continual basis, such as airport terminals, stadia, arenas, hospital corridors, operating theatres, stock rooms, lifts and lobbies.	Compressive strength greater than 30N/mm ² . Available in thicknesses ranging from 40mm to 100mm. Excellent workability properties and good compaction.
Heavy Duty Isocrete Fast K-Screed	A semi-dry cementitious screed incorporating proprietary accelerating, water reducing and shrinkage compensation additives to deliver an ultra-high strength, rapid drying screed.	Recommended for use in areas subject to high volumes of heavy traffic, most likely on a daily basis, and in environments where a screed needs to be installed or overlaid under a quick turnaround.	Contains accelerating and plasticising additives for fast track installation. Can be screeded to very tight tolerances and to falls. Withstands site traffic better than conventional sand/cement screeds.
Isocrete Acoustic K	An acoustic separating floor system for use with a pre-cast concrete floor slab.	Ideal for use in new-build or refurbishment projects where sound insulation is required, particularly in multi-occupancy residential or office areas as well as schools, colleges or universities.	Reduces noise levels in multi-occupancy buildings. Comes complete with a retaining screed and can be used with underfloor heating. Improves acoustic standards in shared buildings.
Isowarm Under Floor Heating	A complete underfloor heating system incorporating insulation, pipe work and associated retaining system and screed.	Ideal for providing efficient heating to many types of building. The system can also be used in cooling mode with chilled water to reduce the dependence on all air conditioning systems.	Offers energy-savings of up to 24% compared to traditional systems. Is hidden from sight providing an aesthetic and safe heat source. Can be used to cool rooms as well as warm them.



B&Q, Hong Kong.



Isocrete K-Screed Machine Installation.

FAST-TRACK installation methods



Isocrete K-Screed can be applied using the Isocrete K-Master - an automated screeding machine that has been designed to increase the productivity and efficiency of floor screeding projects.

Using laser technology, the Isocrete K-Master eliminates errors brought about by manual application. With the machine, floor screeds can be installed up to four times faster than when using conventional pump and hand applied methods - offering significant benefits for construction programme times.

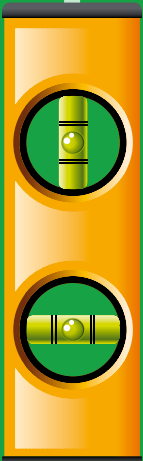
At the same time, the Isocrete K-Master delivers considerable improvements to health and safety, taking floor screeders off their hands and knees and alleviating pressure on both the spine and joints as well as reducing their contact with cement, which can lead to skin irritation.

Used in conjunction with the Isocrete K-Master, our Isocrete K-Screed range can deliver a safer, faster and even flatter sub-floor.

The O₂ Arena, UK.



ISOCR





ETE K-SCREED

hidden strength



Iluma Urban Entertainment Centre, Singapore.

Palacio de las Artes, Spain.

THE FLOORZONE solution



The Floorzone Solution is a unique and environmentally friendly flooring concept from Flowcrete, which addresses the complete flooring needs of any commercial development in a sustainable manner.

Combining a choice of decorative resin floor finishes with a fast-drying screed from our Isocrete K-Screed range, the Floorzone Solution also comes with the option of underfloor heating and/or acoustic insulation to ensure that specifiers involved in new-build or refurbishment construction projects get the most out of their floor.

Offering a number of tangible environmental benefits; reducing energy consumption, deliveries and labour operations as well as waste generated from packaging and production, our Floorzone system is fully geared up to minimise the construction times involved in flooring projects.

Our ability to deliver the complete Floorzone Solution, under a single-source warranty, offers clients total peace of mind throughout the duration of their flooring project.

INNOVATIVE system design



- **SEAMLESS FLOOR FINISH** - Choose from our wide range of performance industrial and commercial seamless resin floor finishes to find the correct style, colour and workability properties to suit the needs of your environment.
- **ISOCRETE K-SCREED** - Add a 'Category A' strength sub-floor system from our Isocrete K-Screed range of eco-friendly sand and cement based floor screeds. All of our screeds contain the innovative K-Additive to accelerate drying and curing times as well as enhance the overall performance of the screed material.
- **ISOWARM UNDER FLOOR HEATING** - Need invisible, controllable heat where it is needed most? Our underfloor heating system, Isowarm, can be used in conjunction with Isocrete K-Screed to both warm and cool a building and is proven to deliver energy savings of up to 24% compared to traditional heating systems.
- **ISOCRETE ACOUSTIC K** - Looking to control noise levels within multi-occupancy or multi-purpose buildings? Isocrete Acoustic K is an effective underfloor soundproofing solution that reduces impact and airborne sound passage between floor levels.

Building up the surface of the floor - from substrate to finish - our Floorzone concept offers clients a number of quality flooring systems under a single-source warranty.



TRANSFORMING MULTI-OCCUPANCY environments

Multi-occupancy environments consist of a diverse set of private and public buildings. High standards of management, infrastructure and indoor environmental quality must be maintained in these environments to ensure the individual comfort of each occupant or tenant as well as to minimise the health and safety hazards or adverse effects brought about by living or working in shared spaces.

The University of Glasgow, UK.

Isocrete K-Screed is the ideal sub-floor system for buildings of this kind; not only does the product deliver compressive strengths of over 30N/mm² but, installed in conjunction with an underfloor heating and/or acoustic insulation system, can provide a safe heat source operated by individually controlled thermostats and at the same time boast excellent acoustic standards by minimising airborne or impact sound transfer.

Wynn Resort & Casino, Macau





The Peak at Stirling Sports Village, UK.

BENEFITS OF k-screed

HEAT SOURCE - Installed in conjunction with our underfloor heating system, Isowarm, Isocrete K-Screed can be used as a safe and energy saving heat source hidden underneath the surface of the floor, minimising potential fire hazards, particularly in multi-occupancy environments.

SOUNDPROOF - Isocrete K-Screed is compatible with a revolutionary soundproofing system that has been proven to minimise airborne and impact sound transfer across floor levels.

LEVEL - Isocrete K-Screed meets surface regularity standard SR2 as defined by the British Standard BS 8204-1. The system is suitable for use with thin section floor finishes like vinyl or carpet and can be installed in areas of tight tolerance or to falls.

MACHINE APPLICATION - The installation of Isocrete K-Screed using the Isocrete K-Master machine has significantly improved health and safety issues surrounding floor screeders as well as delivering a safer, flatter sub-floor - installed up to four times faster.

PROVEN - Containing the K-Additive, a plasticising and accelerating compound used to modify the performance of screed material, Isocrete K-Screed has been one of the most popular floor screeding products available in the industry since 1969.

CREDIBLE - Isocrete K-Screed is manufactured under the International Quality Standard ISO 9001 and British Standard BS 8204-1. The system is also fully certified by the British Board of Agrément certificate No.91/2678, and achieves a 'Category A' acceptance limit of 3mm using the BRE Screed Tester in accordance with British Standard BS 8204-1.



ISO 9001

FM 41035



ENSURING sustainability

"The Flowcrete Group is committed to developing our operations in a sustainable manner and has a holistic approach to producing environmentally friendly flooring materials. This means that rather than just focusing on environmental issues, all decision-making considers the environmental, social and economic impact of Flowcrete's flooring materials, manufacture and supply in order to improve our Company's contribution to addressing the important issues our society faces today."

"Isocrete K-Screed contains recycled materials that have been reclaimed from heavy industry waste streams and has a low cement content to meet high environmental standards. The reduced thicknesses offered by the system can dramatically reduce the amount of material transported and used on site. Fully protected by a suitable floor covering, the life-cycle of the system is expected to mirror that of the building itself - and has been designed to be recycled on demolition."

"We recognise that adopting a sustainable approach across all of our operations throughout the world is the only way that we can truly improve our Company's contribution to environmental protection. By doing so, Flowcrete's contribution to sustainability shall be significant and tangible."

Mark Greaves
Managing Director
Flowcrete Group Ltd

ISOCRETE

Westfield London, UK.



Flowcrete has been involved in the construction of Europe's biggest ever shopping development, Westfield London, located in the trendy Shepherd's Bush district of West London. The centre houses an atrium for live events, 4,500 parking spaces, 265 shops, 15 restaurants, a cinema as well as other leisure facilities.

Flowcrete's fast-drying Isocrete Heavy Duty K-Screed was specified for Westfield's new opulent salon style shopping area known as 'The Village', prior to the installation of Flowcrete's Mondéco in a specially formulated blend.

Flowcrete's semi-dry cementitious floor screed, Isocrete Heavy Duty K-Screed is best suited to environments subject to high volumes of traffic on a daily basis - making it the ideal sub-floor system for this striking new retail centre.

Sports City Cricket Stadium, UAE.



Dubai finally took its place on the world cricket stage as the first Twenty20 Tournament to be held in the UAE played out at the newly constructed Dubai Sports City Cricket Stadium.

The 25,000 seat stadium, which features state-of-the-art facilities, is set to host a number of nail biting games over the coming seasons and includes a no-shadow lighting system that even allows matches to be played on cooler evenings.

Flowcrete's high strength cementitious floor screed, Isocrete K-Screed was selected for the project to provide a strong and level platform for final floor finishes over a 35,000m² area. The fast-curing, quick-drying properties of Isocrete K-Screed allow for fast application and the reduced water content of the system provides added strength and durability.



K-SCREED - hidden strength

KLIA, Malaysia.



Flowcrete has been involved in one of the largest floor screeding projects awarded to date at one of South East Asia's major aviation hubs, Kuala Lumpur International Airport, located in Malaysia's Sepang District.

For the multi-million pound project, the Malaysian Government needed a first class floor screed that was both strong and durable so as to cope with the estimated 60 million passengers that descend on the airport each year.

Over 200,000m² of Flowcrete's fast drying Isocrete K-Screed was installed in the main passenger terminal building providing a level platform prior to the installation of final floor finishes. Isocrete K-Screed is approved by the British Board of Agrément and laid only by approved applicators.



Flowcrete around the world

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