



## ISOCRETE K-SCREED - hidden strength



Airports



Retail



Stadia



Healthcare



Education



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



# 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 Chek Lap Kok and Kuala Lumpur International Airports, Dubai Airport, 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 subfloor 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 that 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 subfloor installed up to four times faster than traditional methods.



Chek Lap Kok Airport, Hong Kong.

# 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 and a more preferable retail price to most self-levelling compounds.

Isocrete K-Screed combines compressive strengths of over 30N/mm<sup>2</sup> with early drying times as favourable as 2-4 hours compared to the typical 7 day cycle associated with sand and cement based screeds.

Isocrete K-Screed can be laid at thickness ranging from just 15mm to over 100mm and used in areas of light 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 eliminated using the Isocrete K-Screed system thanks to inherent moisture control properties, which help to minimise the possibility of screed failure.





For more information go to [www.barbourproductsearch.info](http://www.barbourproductsearch.info)

# 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' strength delivers the impact resistance 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 even 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 – achievable 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 environments



Westfield London, UK.



Dubai International Airport, UAE.

Wembley Stadium, UK.



**STRONG** - With excellent compressive strengths of over 30N/mm<sup>2</sup> compared to the 15-20N/mm<sup>2</sup> 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 as 2-4 hours compared to the 7 day cycle associated with conventional 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 even 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 subfloor.

**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.



# 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/mm². 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/mm². 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 light 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 precast 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 buildings. The system can be used in cooling mode with chilled water instead 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.

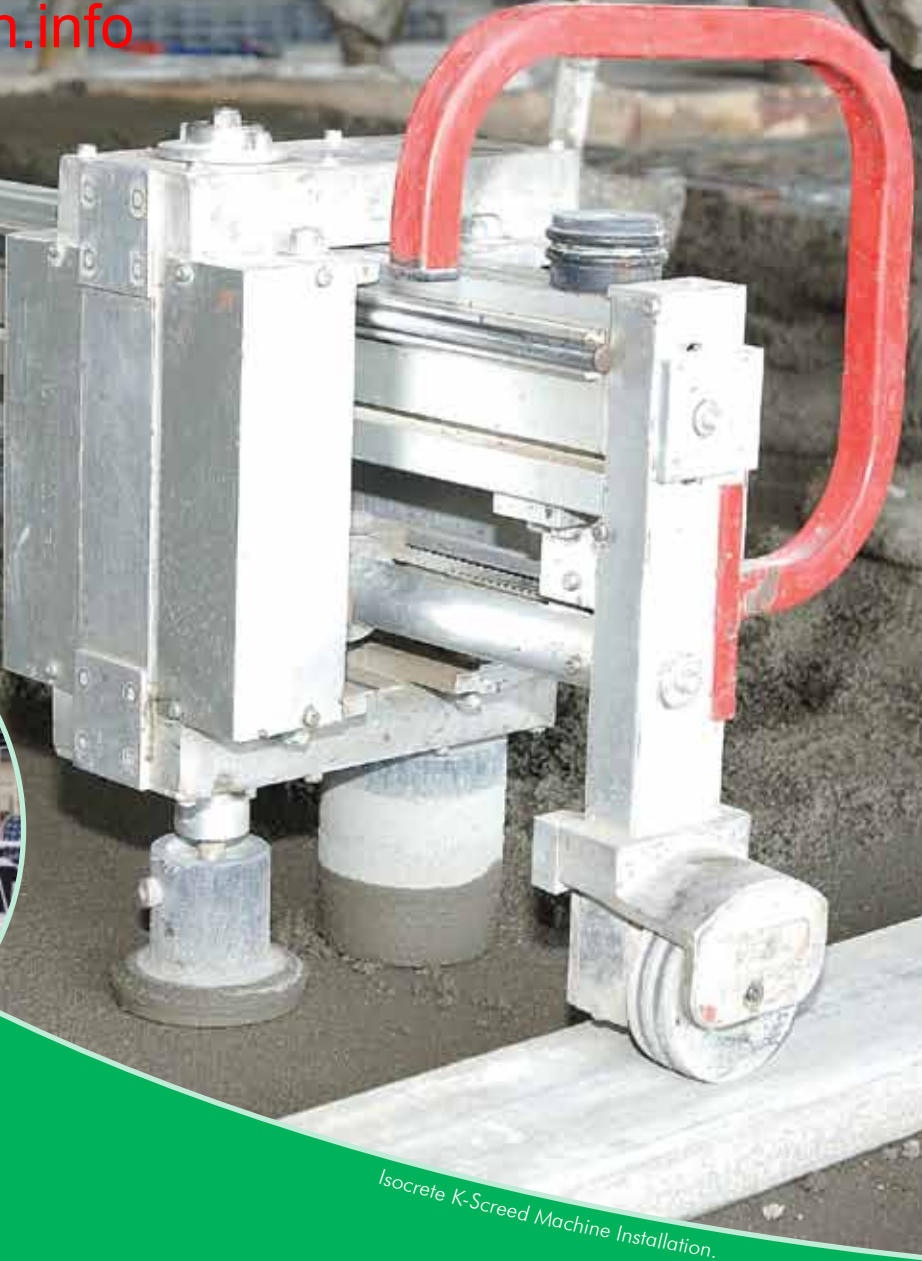
## FAST-TRACK installation methods

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 also 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 subfloor.

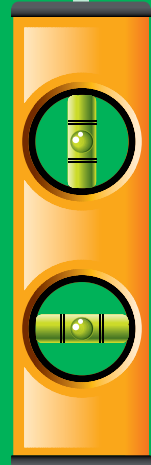


Isocrete K-Screed Machine Installation.



For more information go to [www.barbourproductsearch.info](http://www.barbourproductsearch.info)

O2 Arena, UK



ISOCRETE K-SCREED

hidden strength



# INNOVATIVE system design



Iluma Urban Entertainment Centre, Singapore.

## 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 self-levelling and 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 including reduced energy consumption, deliveries and labour operations as well as waste generated from packaging and production, our Floorzone system is also 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.

● **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 subfloor 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 subfloor system for buildings of this kind; not only does the product deliver compressive strengths of over 30N/mm<sup>2</sup> to guarantee the structural integrity of the entire development 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, which will minimise 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 light 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 subfloor - 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

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 features, 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 35,000m<sup>2</sup> 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.

## ISOCRETE K-SCREED - hidden strength

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 subfloor system for this striking new retail centre.

KLIA, Malaysia.



Flowcrete has been involved in one of the largest-ever floor screeding projects to date at Kuala Lumpur International Airport in Malaysia's Sepang District.

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

Over 200,000m<sup>2</sup> 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 licensees.





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\*Partner Company

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