

# Flowcrete

for the world at your feet

## Flowfresh

### Latest Generation of Anti-Microbial Protection



Flowcrete's new seamless polyurethane Flowfresh range delivers the next generation of anti-microbial performance for added protection against bacteria in food & drinks processing, dairies, healthcare facilities and anywhere where hygiene is the top priority. The new system works by harnessing the natural power of silver.

Joining forces with internationally renowned chemicals and performance materials company Perstorp Chemicals AB, Flowcrete is utilizing the unique Polygiene compound for its state-of-the-art Flowfresh seamless flooring systems, representing a major step forward in delivering hygiene performance across the entire range of food processing, healthcare and pharmaceutical environments.

A special additive in Polygiene emits ions of silver, which continuously migrate to the surface where they effectively suppress microbial growth. The additive is locked into the Flowfresh resin matrix and provides total protection against a range of bacteria including E.Coli, Staphylococcus Aureus, MRSA, Salmonella Typhi, Streptococcus Pyogenes and SARS. It also inhibits the growth of mould, fungi and mildew and protects against the propagation of superbugs. It is effective 24 hours a day 7 days a week and remains active throughout the lifetime of the flooring system. Polygiene should not be seen as a substitute for cleaning but as a second line of defence for regular hygiene practices.



### Excelling in Electronics

When leading international electronics powerhouse Flextronics was looking for flooring for its newly expanded manufacturing facilities in Malaysia, Flowcrete was the only flooring specialist that could meet the tough specifications.

The highly sensitive nature of the electronics equipment being manufactured demanded an Electro Static Dissipating floor rated to BS2050. Flowcrete's Flowshield ESD SL was the only system available that could meet this specification. An additional challenge was the tight timeframe of just 21 days to complete the installation over the 4,500sqm area.

Although a new building, the substrate in the specified area required substantial remedial works to be carried out before the Flowshield could be installed. This was followed with a base coat of Flowcem, a cementitious, modified epoxy DPM system. The Flowshield ESD SL was then installed at 2mm thickness making the area ready for testing. In addition to its high anti-static properties, Flowshield ESD SL is easy to clean and abrasion-resistant.

Deploying its technical manpower and equipment, Flowcrete was able to complete the entire project in a record 19 days.

## Fast-Tracking with Flowfast

Unique ultra fast-track flooring system, specifically designed for the fast-moving commercial sector and hard-hitting industrial environments. Ready for use just two hours after installation.

- > Exceptional durability and abrasion resistance
- > High compressive strength and impact resistance
- > Exceptional bond strength
- > Ability to withstand wheeled traffic and shopping trolleys
- > Can be installed over 'green concrete' with RH of 100 percent
- > Superior chemical resistance
- > Non-slipding, non-porous, easy to clean
- > Lifespan of up to 10 years

Multi-national organisations such as Tesco, Sainsbury's, Ikea, Marks & Spencer, Boots and Debenhams have all selected Flowfast to transform their retail environments. With Flowfast, refurbishment programmes can be carried out with minimal disruption to operations, enabling retailers to present a completely fresh image literally overnight without incurring any losses through downtime.

In the manufacturing industry, global organisations such as Nestle, Diageo, BAE, Airbus, Ford and GSK are turning to Flowfast to create more inspirational, productive working environments without taking a hit on downtime.

### Sleek Looks at Amtek

Singapore-based precision components manufacturer Amtek Engineering has transformed its new production facility on the island of Batam, Indonesia, thanks to a brand new floor from Flowcrete.

Covering an area of 1,000sqm, Flowcrete first applied a 2-3mm Flowcem system, a cementitious, modified epoxy DPM (damp proof membrane). This was then finished with a smooth topcoat of Flowshield, an epoxy resin self-levelling system delivering a sleek, hard-wearing, abrasion resistant and easy to clean surface.

## Transforming Environments with Performance Flooring



### Six Star Surface for Medical Centre

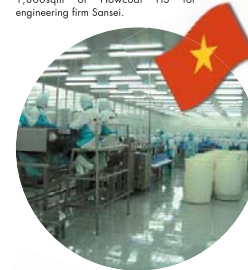
Visitors to the state-of-the-art 6-star Prince Court Medical Centre in cosmopolitan Kuala Lumpur will enjoy a 6-star experience before they even enter the building - in the car park.

Some 40,000sqm of Flowcrete's waterproof, elastomeric, polyurethane car park decking system Deckshield has been installed at the three-level basement car park as well as at the flat top roof level and in the M&E Rooms. The high performance, hard-wearing Deckshield system provides significant benefits to building owners and operators. Available in a range of colours, the light reflective, easy to clean surface makes car-parks brighter, more pleasant environments, and can help deliver cost savings on energy consumption. The slip resistant surface helps reduce tyre squeal and high chemical resistance is a further key benefit.

### Vietnam Ventures

The newly established Flowcrete office in Ho Chi Minh City is rapidly establishing a strong client base.

Since setting up the office in early January this year, a number of major projects have been booked and completed. The largest of these was at Ut Xi Seafood (below), where some 4,800sqm of solvent free, hygienic Flowcoat SF41 with anti-slip was installed. Other projects include 1,500sqm of Flowfresh MF at URC Food, a confectionary manufacturer and 1,800sqm of Flowcoat HS for engineering firm Samsel.



### Making Moves in Manufacturing

The state-of-the-art subsea oil and gas production facility established in Malaysia by global engineering giant Aker Kvaerner has flooring to match the high-tech manufacturing carried out there.

The Subsea Tree Assembly & Testing Area (Phase 1) required a heavy duty, durable, easy to maintain floor capable of withstanding high impact. Flowcrete installed its epoxy motor system as the underlayment followed by Flowcoat. Flowcoat is a high performance, hard-wearing, slip-resistant, seamless finish. The high build epoxy resin coating offers the added benefit of superior chemical resistance.

In the Workshop Area (Phase 2), Flowcem was installed as the underlayment and damp proof membrane, followed by Flowcoat. The ability to meet the tight timescale of 20 days for the Phase 1 installation of 4,500sqm was one of the criteria for Flowcrete securing this major assignment. Phase 2 was a further 3,500sqm.



### Thai Track Record

Flowcrete Thailand has been busy with a number of Flowfresh installations for clients in the food processing and electronics industries.

At ABF Poultry Processing in the district of Lopburi, 8,000sqm of Flowfresh MF and HF have been installed while at Seawatch Seafood (below) in Hat Yai, a similar installation of 3,000sqm has been completed.



### Catching on in Korea

Flowfresh is catching on fast in the South Korean Republic with ten major projects completed in first quarter of 2007 alone, all for clients in the food processing industry. The largest of these was for Jinyoung Food where 3,000sqm of Flowfresh RT was installed. Over at Haitai Milk, nearly 1,500sqm of Flowfresh MF was also installed. Flowfresh is a heavy duty, chemical resistant antimicrobial treated floor screen making it perfect for areas where hygiene is the top priority.





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## Transforming Environments with Performance Flooring

South East Asia

### Around The Region



United Arab Emirates



**Dubai Festival City**  
A massive development involving the creation of an entire city with zones for residential, leisure, business, commerce and retail. In the first phase of a 350,000sqm project, Flowcrete has provided over 100,000sqm of its high strength heavy duty K-screed for installation at the Retail Zone. The system has been installed using the K-Master mechanical



New Zealand



**Fonterra Dairy Cooperative**  
Flowcrete's seamless polyurethane Flowfresh system is helping to keep several of Fonterra's dairy processing facilities in New Zealand free of bacteria. The superior performance antimicrobial system gives added protection against a range of bacteria, fungi, mildew and superbugs, ensuring that production remains safe and that the facility meets all the necessary regulatory requirements.



South Africa



**Rynfield Fruit & Veg**  
Seamless, easy to clean, hygienic resin flooring from Flowcrete has won out over conventional ceramic tiles at a chain of seven Fruit & Veg stores, including its flagship store in Rynfield. Customers entering the stores are immediately impressed by the good looking floor, which has the added benefit of being tough and durable.

### Automotive Action

Automotive dealers around South East Asia are turning to Flowcrete to help create sleek showrooms and smart workshop environments that match the glossy looks and exclusive class of the marques they sell and service. BMW dealers in Singapore and Malaysia and UMW Toyota Malaysia have all selected Flowcrete to ensure the sophisticated image of their sales and service centres spreads right across the floors.

### Best for BMW

With luxury vehicle brands such as BMW, image is everything, especially in the showroom where first impressions go a long way towards closing the deal. When setting up its brand new BMW 3S Car Sales & Service Centre in central Kuala Lumpur, Sapura Resources Sdn Bhd opted for Flowcrete's Deckshield, a waterproof, elastomeric, polyurethane decking system. Some 2,200sqm of Deckshield ED were installed at the Ground and Mezzanine floors (above), with Deckshield ED used at the roof top level. Spreading attractive looks and performance characteristics across the facilities, Deckshield provides a hard-wearing, easy to clean surface available in a range of colours. Deckshield's slip resistant properties also help to minimise tyre squeal.

In Singapore, the existing floor at BMW Singapore's upmarket showroom in Bukit Timah had suffered considerable wear and tear and was no longer in keeping with the luxury image of the vehicles on the showroom floor. The client wanted to minimise disruption to operations and was therefore looking for a solution that could be implemented with maximum ease and minimum fuss. Flowcrete recommended Flowcoat Quartz, a high performance, hard-wearing, slip resistant, seamless finish. The high build epoxy resin coating offers the added benefit of superior chemical resistance, helping to protect the floor and keep it looking sleek and stylish well into the future (top left).

### Tune up for Toyota

Beyond its attractive looks, the proven track record and hard-wearing properties of Flowcrete's seamless polyurethane resin flooring system Flowfresh, were enticing prospects for UMW when choosing the flooring finish for its new Toyota Service Centre in Batu Pahat, Malaysia.



Working to a fast-track two week schedule, Flowcrete prepared the substrate and primed the surface prior to installing the Flowfresh at 2mm thickness over the 2,520sqm area. Installed in one seamless application, Flowfresh is more than suitable for the harsh environment of vehicle service centres offering high durability, abrasion resistance and exceptional chemical resistance. Conveniently easy to clean, Flowfresh also makes the working environment a safer place by offering excellent slip resistance.

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Throughout South East Asia, Flowcrete International has been going from strength to strength recently, helping companies to transform commercial and industrial environments with a wide variety of performance flooring systems. From manufacturing and food processing to retail and commercial right through to car-park decking, customers are choosing Flowcrete for its quality systems, expertise in advanced flooring technology and experience in installation.



These customers have made their selection knowing that Flowcrete systems are world-proven, provide an excellent return on investment, will continue to look good well into the future and include a direct warranty from us.

### Macau Movers

Macau is rapidly becoming the dazzling Las Vegas of the East. Leading the way is Wynn Design and Development LLC, who teamed up with Flowcrete to ensure that quality and excellence are present throughout its new high rolling resort.

A major concern was the intense weight to be endured by the casino floors (including cash trucks up to 1000kg) prompting Flowcrete Hong Kong to propose its Isocrete Heavy Duty K-Screed system. Delivering high durability and impact resistance, K-Screed's reduced water content eliminates the cracking and curling that often occur with conventional substrates such as sand and cement. The results gave the Wynn Macau Resort the grounding it needed to build a glamorous interior, confident in the knowledge that the K-Screed would stand the test of time.

Keen to ensure a high quality image throughout, Wynn Design selected Flowcrete's performance car park decking system, Deckshield, for the 20,000sqm of multi-storey parking space. The waterproof, crack-bridging polyurethane system was installed onto a substrate of Heavy Duty K-Screed to provide a durable high-quality finish that will protect the integrity of the building structure well into the future. Deckshield provides a smooth surface which reduces noise from tyre squeal, making the new car park an easy ride for the casino's high-rollers.

### DIY Delight

International DIY Chain B&Q set Flowcrete Hong Kong a tough challenge when it was looking to give its new hyperstore the best finishes: to complete almost 10,000 sqm of flooring within just 6 weeks, in time for the store's Grand Opening.

At its first store in Hong Kong, B&Q wanted to ensure that the floor looked good, would be easy to clean and would stand up to the rigours of this heavy duty retail environment. Flowcrete Hong Kong proposed its Heavy Duty K-Screed which was installed using the K-Master mechanical screeding machine, to ensure consistency and flatness over the large area on each of the three floors. This was topped with Flowshield Quartz, a self levelling resin flooring, to provide a seamless, durable and attractive finish.

