



Healthcare



Pharmacies



Pharmaceutical Production



Laboratories

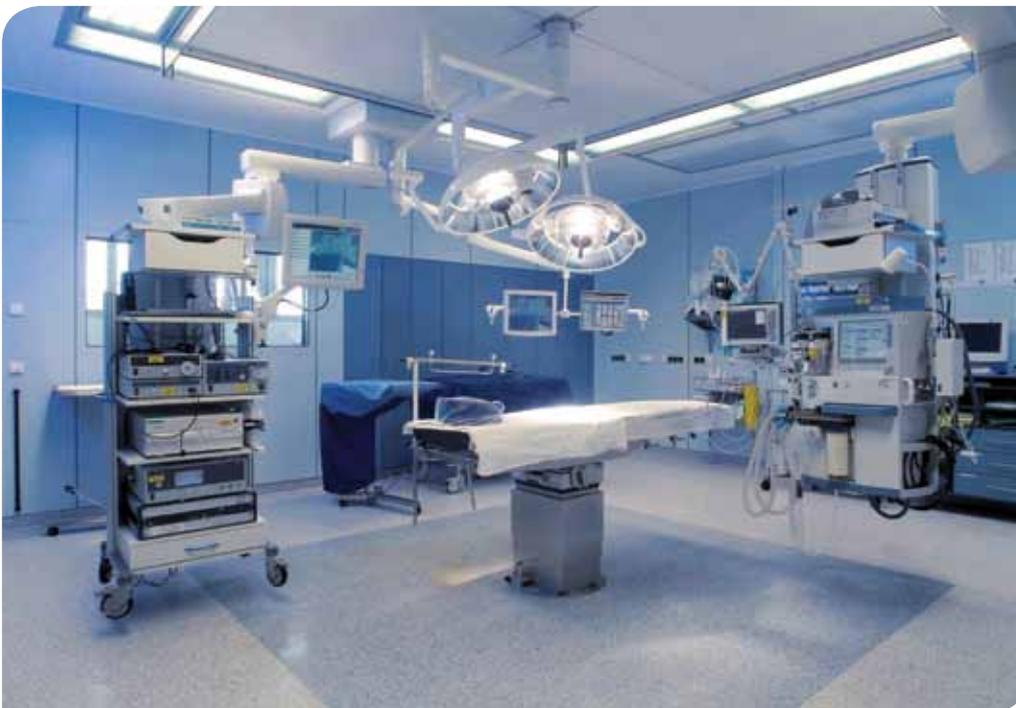


Service Areas



Plant Rooms and Maintenance

TRANSFORMING medical environments



Floorzone Solutions for the Medical Sector

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 sales support team and the backing of a major multinational 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 that your project is in safe hands with Flowcrete.



AstraZeneca, UK.

TRANSFORMING medical environments

The medical industry works around the clock to combat the harmful effects of bacteria, virus and disease found in the modern world. Using rigorous cleaning techniques, manufacturing state-of-the-art medicine and carrying out extensive research programmes, the healthcare sector does all it can to stay one step ahead.

Flowcrete has built up over 35 years of experience delivering first class medical grade flooring solutions to a number of the world's leading hospitals, healthcare institutes, research and development centres and pharmaceutical production facilities.

Now, Flowcrete has developed its **Floorzone** concept to cater for all areas of the specialist medical sector - offering a comprehensive mix of innovative resin floor and wall coating materials, under one single responsibility package, to meet the diverse needs of medical environments.

What's more, Flowcrete's **Floorzone** concept has been designed with sustainability in mind so that it not only performs in your environment but is also kind to our planet.



Morrilton Hospital, UK.



DELIVERING - performance flooring

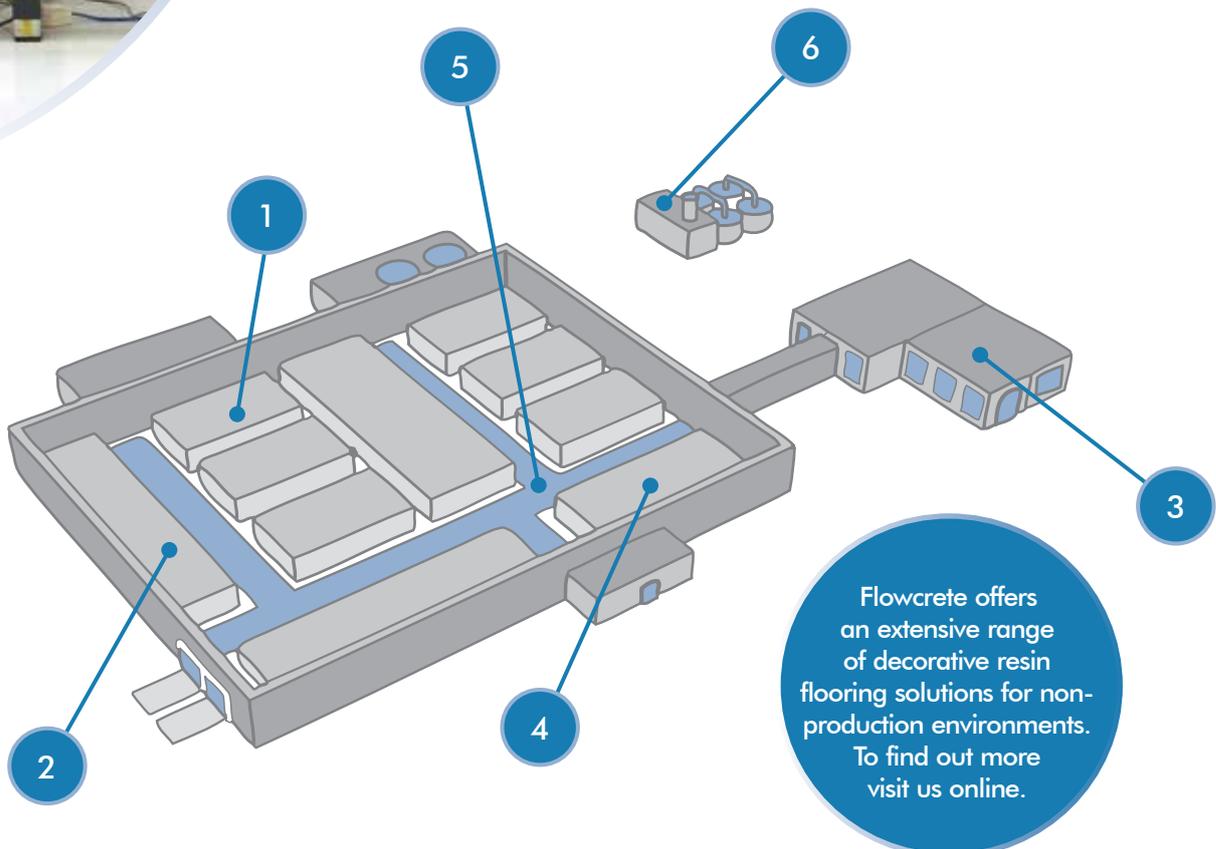
What kind of flooring system? That's the big question faced by clients in the healthcare sector looking to satisfy a number of aesthetic requirements and service conditions.

In hospitals, doctor's surgeries, care homes and even veterinary practices, the chosen floor finish needs to offer hygiene, strength and sanitation, without compromising on looks. Flowcrete's range of seamless resin floor coatings provide a protective layer for the concrete substrate as well as all of the inherent antibacterial properties that result from a seamless finish.

In research and production environments such as laboratories and manufacturing plants, where cleanliness and hygiene are paramount, more durable systems are required. These systems are often thicker, tougher and come with additional protection such as chemical resistant seal coats, antimicrobial additives and a made to order anti-slip profile.



TRANSFORMING medical environments



Calderstones MSU, UK.



1

Healthcare

Healthcare facilities such as hospitals, doctor's surgeries, residential care units and veterinary practices are at constant threat from the spread of infection. In addition to rigorous hygiene regimes, an easy to clean, antimicrobial seamless flooring solution can help to minimise the spread of disease and kill up to 99.9% of bacteria on the surface of the floor.

- Flowfresh HF •Flowshield Quartz •Mondéco TZ

Stanton's Pharmacy, Ireland.



2

Pharmacies

Pharmacies have a dual role, firstly to store and distribute medication and secondly to provide a welcoming retail environment. Back of house storage, preparation and dispensing areas require a hygienic and easy to clean floor finish, whereas retail and waiting areas are better suited to durable, decorative and slip resistant coatings that can stand up to the daily rigours of a busy public environment.

- Flowfresh MF •Flowfast Quartz •Flowtex

Novartis, Singapore.



3

Pharmaceutical Production

Pharmaceutical production environments must maintain the highest levels of cleanliness at all times. Flowcrete's resin and seamless terrazzo flooring systems are the ideal platform for clean rooms, processing lines and R&D laboratories. Combined with added chemical and electrostatic resistance, our seamless surfaces are well suited to sterile processing environments.

- Flowfast Quartz •Mondéco TZ •Peran STB

Texas A & M College, Qatar.



4

Laboratories and Clean Rooms

Laboratories and clean rooms require specialist floor coatings to maintain a barrier against dirt, dust and other nasties. The high gloss, seamless finish of Flowcrete's floor and wall coatings eliminates cracks and crevices - making the floors dust-free as well as easier to clean and decontaminate. Our antistatic flooring range is also ideally suited to areas where sensitive electronic components are handled.

- Flowshield Quartz •Peran ESD STB •Flowcoat SF41

MSD Pharmaceutical, Singapore.



5

Service Areas and Corridors

Service areas and corridors require durable flooring systems to ensure a strong platform underfoot. Flowcrete's Isocrete Floor Screeds deliver the strength needed to support high traffic environments. Overlaid with a performance floor finish that delivers durability, slip resistance and aesthetics - these highly trafficked areas will perform day after day.

- Isocrete Floor Screeds •Mondéco •Flowfast Quartz

Brighton Hospital, UK.



6

Plant Rooms and Maintenance

Plant rooms play an important role in keeping operations moving. Flowcrete offers a number of industrial floor coatings and systems suitable for use in maintenance areas. These systems are able to meet a host of performance criteria including high mechanical, chemical and impact resistance, as well as being easily cleaned and maintained.

- Flowfast Quartz •Flowcoat SF41 •Flowshield Quartz

The FLOORZ

Flowfresh

The Flowfresh range includes medium to heavy duty polyurethane resin floor screeds, best suited to use in a wide variety of demanding industrial environments. Containing Polygiene®, a silver-based antimicrobial agent, Flowfresh delivers antimicrobial surface protection, which remains active for the life of the floor.

Flowfast Quartz

Flowfast Quartz is a joint-free and wear resistant quartz flooring system best suited to use in medium to heavy duty environments where a durable finish is required. Available in a blend of colours, Flowfast has been designed to enable fast track installation and therefore significantly reduce client downtime.

Flowfast Terrosso

Flowfast Terrosso is a seamless, decorative, hard wearing acrylic resin floor finish, developed for high traffic retail environments. Flowfast Terrosso has been developed to enable very fast track applications, therefore dramatically reducing installation times.

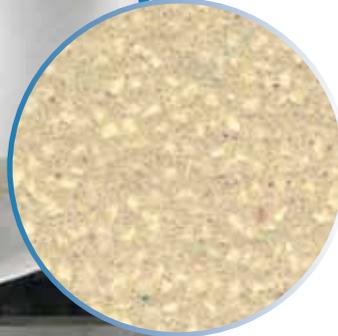
Flowshield Quartz

Flowshield Quartz is a seamless and self smoothing epoxy floor coating that delivers a colourful and decorative speckled finish. Both easy to clean and maintain, Flowshield Quartz is a dust free and environmentally friendly flooring system that offers good all round resistance in medium duty areas.

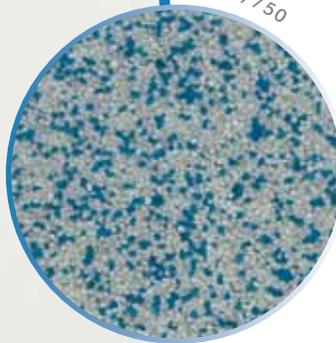
FLOORZONE Solution

Lonza, Singapore.

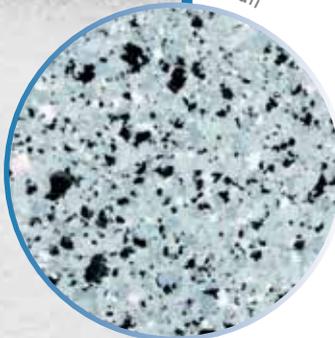
Cream



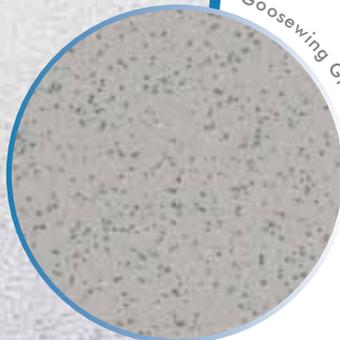
Blue 7750



Dali



Goosewing Grey 222



ONE Solution

Flowseal EPW

Flowseal EPW is a water-based, hygienic floor sealer with a coloured gloss finish, best suited for use in dry process areas, kitchens, light industrial areas, store rooms and areas of pedestrian and light wheeled traffic. Flowseal EPW can be applied to damp substrates and is vapour permeable.

Peran / Flowfresh WW

Peran WW is a water-based, hygienic and coloured gloss sealer for walls and ceilings, best suited to use in production and light industrial areas as well as store rooms. Containing Polygiene®, a silver-based antimicrobial agent, Flowfresh WW offers the additional benefit of antibacterial surface protection.

Peran ESD SL

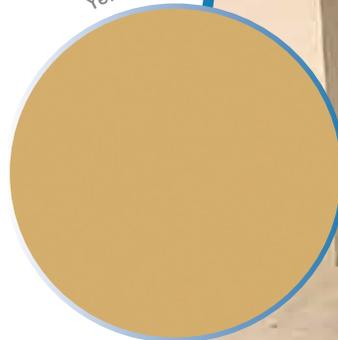
Peran ESD SL is an antistatic, hygienic and easy to clean resin floor finish designed to provide a hard wearing, seamless and static-free surface compliant with BS EN 61340/5/1 / BS 2050. Peran ESD SL is best suited to use in dry process areas such as laboratories and clean rooms where the prevention of static build up is needed.

Mondéco TZ

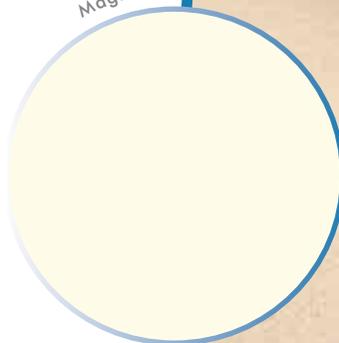
Mondéco TZ is a seamless, heavy duty polyurethane resin terrazzo, best suited to aggressive areas subject to hot fluid spillage, chemical attack and heavy foot or wheeled traffic. With the added benefit of Polygiene®, Mondéco TZ can offer the ultimate in performance hygiene flooring.

The Christie Hospital, UK.

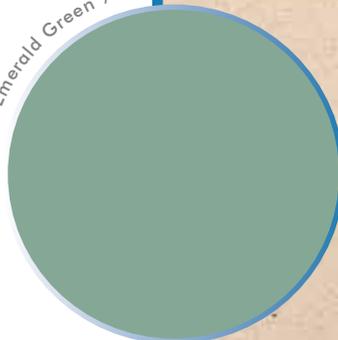
Yellow 340



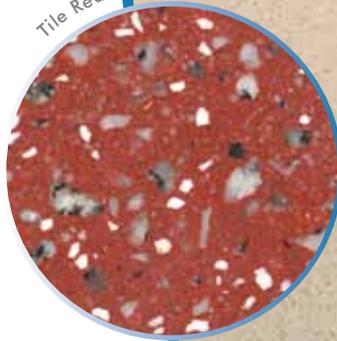
Magnolia



Emerald Green 740



Tile Red

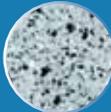
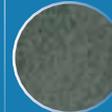


s for the Medical Sector

PRODUCT -

technical information

The figures provided in the table below are typical properties of our specialist flooring systems achieved in controlled laboratory tests that were conducted at 20°C and at 50% relative humidity. For full system technical data, please contact your local Flowcrete office or alternatively visit us online.

Flooring System:	Flowfresh	Flowfast Quartz	Flowfast Terrosso	Flowshield Quartz	Flowseal EPW	Peran / Flowfresh WW	Peran ESD SL	Mondéco TZ	Isocrete K-Screed
System Thickness	6-9mm	4mm	4mm	2mm	0.12mm	0.5mm	2mm	7mm	3-30mm
Impact Resistance (ISO 6272)	1kg > 1.8m 2kg > 1.5m	1kg > 1.8m 2kg > 1.5m	1kg > 1.8m 2kg > 1.5m	-	-	-	-	1kg > 1.8m 2kg > 1.5m	-
Abrasion Resistance (BS 8204-2)	Class AR2	Class AR1	Class AR2	Class AR2	Class AR3	Class AR3	Class AR2	Class AR2	Class AR3
Temperature Resistance	Up to 120°C	Up to 70°C	Up to 80°C	Up to 50°C	Up to 70°C	Up to 70°C	Up to 60°C	Up to 120°C	Up to 70°C
Permeability (Nil-Karsten Test)	Impermeable	Impermeable	Impermeable	Impermeable	20g/m ² /mm/24hr	20g/m ² /mm/24hr	Impermeable	Impermeable	Impermeable
Bond Strength (Primed Concrete)	>1.5 MPa	>1.5 MPa	>1.5 MPa	>1.5 MPa					
Compressive Strength (BS 6319)	>50 N/mm ²	60 N/mm ²	>40 N/mm ²	55 N/mm ²	-	-	60 N/mm ²	>55 N/mm ²	>28 N/mm ²
Flexural Strength (BS 6319)	20 N/mm ²	20 N/mm ²	-	23 N/mm ²	-	-	40 N/mm ²	>20 N/mm ²	>7 N/mm ²
Tensile Strength (BS 6319)	10 N/mm ²	15 N/mm ²	-	13 N/mm ²	-	-	25 N/mm ²	>8 N/mm ²	-
FeRFA Type (BS 8204-6)	8	6	4	5	1	1	5	8	1
Slip Resistance* (BS 7976-2)	Dry >40	-	Dry >40	Dry >40	Dry >60				
Speed of Cure** (per layer)	Traffic: 48hr Chem: 7days	Traffic: 2hr Chem: 2hr	Traffic: 2hr Chem: 2hr	Traffic: 48hr Chem: 7days	Traffic: 24hr Chem: 7days	Overcoat: 8hr Chem: 2hr	Traffic: 48hr Chem: 7days	Traffic: 48hr Chem: 7days	Traffic: 8hr Chem: 7days
Fire Resistance (EN13501-1)	BFL-S1	CFL-S1	Class 2 (Indicative)	BFL-S1	BFL-S1	BFL-S1	BFL-S1	BFL-S1	-
Product Sample:									
	Cream	Blue 7750	Dali	Goosewing Grey 222	Yellow 340	Magnolia	Emerald Green 740	Tile Red	K-Screed

*The slipperiness of flooring materials can change significantly due to the installation process, after short periods of use, due to inappropriate maintenance or longer term wear. To meet slip resistance value requirements for wet conditions, textured systems are recommended. Please contact a technical advisor at your local Flowcrete office for further details and specifications.

**Figures shown at 20°C. For speed of cure at 10°C and 30°C, please contact your local Flowcrete office.

SPECIALIST - flooring features

There are a number of factors affecting the performance of healthcare facilities and pharmaceutical plants, which left untouched, can have a negative impact on the bottom line. Flowcrete floors offer the following characteristics - helping to improve productivity from the ground upwards:

Hygiene

Hygiene and sanitation is one of the most pressing issues facing medical environments. Flowcrete manufactures seamless floor and wall coatings that eliminate the cracks and crevices prone to harbouring dirt and dust as well as polyurethane coatings containing a natural silver-based antimicrobial additive that destroys bacteria on the surface of the floor.

- [Flowfresh MF](#)
- [Mondéco TZ](#)



Slip Resistance

Slip resistant floor coatings go a considerable way to reducing the slips, trips and falls that can occur in wet processing environments. Flowcrete offers a number of positively textured resin coating systems that can often be adjusted to suit slip resistance requirements and can be laid to falls to ensure any water or liquid spillages can flow better to drains.

- [Flowfresh HF / RT](#)
- [Flowfast Quartz](#)



Temperature Resistance

The climate found in laboratories and testing areas can vary from intense heat to extreme cold. Flowcrete's specialist floor systems have been specially formulated for use in areas subjected to a wide range of temperatures and offer sufficient durability and thickness to withstand demanding hot water cleaning processes.

- [Flowfresh HF / RT](#)
- [Mondéco TZ](#)



Chemical Resistance

Flooring in laboratories can be subject to a wide range of corrosive and potentially degrading solvents, acids and chemicals in both its daily operations and cleaning processes. Flowcrete flooring materials offer excellent resistance and durability against a wide spectrum of substances commonly associated with the medical industry.

- [Flowshield Quartz](#)
- [Peran STB](#)



Fast Track Installation

The downtime involved in both new build or refurbishment works can have an impact on the bottom line for healthcare facilities. Flowcrete floors have been designed to accommodate fast track installation and can often be applied overnight and/or onto surface dry concrete. Our specialist MMA flooring range can deliver cure times of just two hours to keep downtime to a minimum.

- [Flowfast Quartz](#)
- [Flowfast Terrosso](#)



Antistatic

Aggressive solvents used in rigorous clean down processes need to be stored securely away from any electrostatic charge that could result in ignition or even explosion. Antistatic floor coating systems from Flowcrete can help to expel any undesirable electrostatic charge from the locality of such environments as well as offer suitable corrosion protection on the surface of the floor.

- [Flowfresh ESD MF](#)
- [Peran ESD STB](#)



FOCUS ON - the Floorzone

An expert insight into flooring for the medical industry...

A hygienic flooring system is the latest tool in a hospital's armoury to help fight illness at ground level and ensure a clean, germ free and healthy environment for staff and patients.

Our resin and seamless terrazzo flooring systems are the ideal platform for clean rooms, processing lines and R&D laboratories. Combined with added chemical and electrostatic resistance – our seamless surfaces are well suited to sterile processing environments.

Choosing fit for purpose, quality fixtures and fittings is key to complying with rigorous hygiene standards - particularly when it comes to floors and walls - both of which can act as a vital line of defence in the fight against bacteria and germs.

Flowcrete offers a variety of speciality resin-based coating systems, including epoxies, polyurethanes, acrylics and methyl methacrylates (MMAs), which can be applied to provide a protective barrier against these contaminants.

With the **Floorzone** package, medical sector clients can select from a wide range of systems all tailored to deliver the durability and performance characteristics required to meet a whole range of service, application and aesthetic conditions.



ENVIRONMENTAL - protection



The Flowcrete Group is committed to developing our operations in a sustainable manner and has a holistic approach to producing environmentally friendly flooring materials and using our planet's resources responsibly. Significant point enhancements can be obtained under the **LEED®** (U.S. Green Building Council) programme by utilising Flowcrete products. Our Floorzone concept has been designed with sustainability in mind and offers a number of key environmental benefits.



To find out more, visit:

www.flowcrete.co.uk/our-environment

TRANSFORMING MEDICAL ENVIRONMENTS - case studies

St Helens and Whiston Hospitals, UK.



Flowcrete has completed one of the largest screeding projects undertaken in recent years within the UK, at two new hospitals in St Helens and Whiston, Merseyside, UK.

Flowcrete's time proven screed, Isocrete 1500, has been used across 100,000m² at both hospitals. A pumpable, levelling cementitious compound, Isocrete 1500 creates a level surface between concrete and the floor finishes.

The project includes the construction of a hospital housing new In Patient facilities, including Accident and Emergency, Diagnostic, theatres and 823 beds to replace the existing facility at Whiston, along with the construction of a Diagnostic Treatment Centre at St Helens. Isocrete 1500 has been laid to the wards and corridors, on almost every floor of each of the hospitals.

Derby Hospital Helipad, UK.



The ability to cope with helicopter landings and extremes of weather has resulted in the installation of Deckshield, the pioneering decking system from Flowcrete, at the new Derby City General Hospital.

Used at the hospital's new helicopter landing pad, Deckshield provides a secure surface for the Air Ambulance as it bring patients to the hospital. Deckshield has provided a system able to cope with the heavy landing rigour of a helicopter. Although the traffic is a lot more minimal than with cars, it is more extreme. Helicopters spray a lot of fuel and acids when landing and taking off and, with the helipad being at the highest point of the hospital the surface is more susceptible to bad weather conditions.

The installation of Deckshield, covering an area of 1000 square metres, was made to the standard requirements for a helipad involving a circle with a white cross and a 'H' for helicopter in the middle. Colours used included mid-grey, yellow, green and red.



AstraZeneca, UK.

AstraZeneca is one of the world's leading pharmaceutical companies, with a major presence in the UK. Their business is focused on providing innovative, effective medicines in important areas of healthcare.

Flowcrete installed over 500m² of Mondeco TZ a solvent-free, polyurethane concrete screed product, in their Macclesfield base.

The product contains Polygiene, an antimicrobial additive and provides a hard wearing, decorative, seamless, anti-static floor that is compliant with BS 2050.



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*Partner Company

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