



# Flexcrete

Structural Repair & Protection Technology

**Waterproofing**

**Quality**

**Anti-Carbonation**

**Concrete Repair**

*environmental performance*

INNOVATION

Durability

sustainability

expert knowledge

Buildings & Commercial Construction

Civil Engineering & Infrastructure

Reliable

Utilities



# Technical innovation is key at Flexcrete and we invest heavily in Research and Development.

*The Shard, London.  
Reinstatement of concrete cover and waterproofing to concourse.*



## Company Background

Over the past 30 years, Flexcrete has become firmly established as the UK's leading independent manufacturer of engineering quality technical mortars and high performance coatings.

**With our head office and manufacturing facility based in Leyland, North West England, a national network of distributors ensures immediate availability of Flexcrete products all around the UK. We also have a proven track record further afield, with an impressive international network of business partnerships to service customer demand across all continents.**

Flexcrete has a wealth of technical specialists who can call upon decades of knowledge and experience to offer high performance, durable and innovative solutions for construction, civil engineering, infrastructure, coastal and utilities projects, amongst many others. Whatever your project, we have the specialist products, expert knowledge and technical back-up to assist.

### Engineered Solutions

Technical innovation is key at Flexcrete and we invest heavily in Research and Development to ensure that we can offer the most technologically advanced and innovative repair and protection materials available today for refurbishment or new build projects.

Flexcrete products are used to solve complex structural problems in some of the world's most hostile environments, so we ensure they offer ultimate protection against water penetration, chemicals, chloride ions, carbonation and other aggressive forms of attack.

Flexcrete products applied to buildings and structures some 30 years ago are still performing well today, proving that our materials can be relied upon with absolute confidence.

### Technical Support

At Flexcrete, we offer much more than a standard materials supplier, we act as a true partner providing genuine added value. With a dedicated technical support team, we pride ourselves on the quality and speed of response to technical queries, whether these are over the telephone, by e-mail or via our website. Our technical experts provide support on projects all around the world, including both application training and after sales support.

#### Our back-up service includes:

- Provision of bespoke technical specifications for each project
- Creation of project-specific CAD detail drawings
- On-site technical service and support
- Application training at our dedicated national training facility
- Continuing Professional Development (CPD) seminars

“Flexcrete products are used to solve complex structural problems in some of the world's most hostile environments.”



*Locarno Airport in Switzerland for Rega, the Swiss Air-Rescue Service.*



**We do not inherit  
the earth from our ancestors,  
we borrow it from our children.**

Native American Proverb

*Krvavec Transmitter Tower, Slovenia.  
Concrete repairs and coating of reinforced concrete tower.*



## Environmental Performance

Since the early 1980's, Flexcrete has pioneered the use of waterborne technology to develop its products, and that philosophy remains the mainstay of the company today.

**Flexcrete materials are water-based and offer distinct advantages over solvent borne products, in that they are easy to apply with ultra-low VOC levels and minimal odour.**

They can be applied in enclosed environments with absolutely no disruption to other trades, and daily routines can continue as normal to keep downtime to an absolute minimum. Flexcrete materials are designed to meet even the most stringent environmental objectives.

### Sustainability

Sustainability is a core value at Flexcrete and we are 100% committed to ensuring that our operations are conducted in a sustainable manner by adhering to eco-efficient principles. Our zero emissions production facility is powered by renewable energy and we make extensive use of harvested rainwater in our processes. Furthermore, our technology directly contributes to sustainability in the built environment, for example with green and other energy saving roofing systems. We optimise the use of recycled components, and with a long design life which is easily extended, asset owners are able to make responsible, informed decisions in the knowledge that the long-term environmental impact is minimised.



*Private Villa, Taipei, Taiwan.*



*Australian International School, Hong Kong.*

“Green roofing attracts wildlife including birds, butterflies and insects that are otherwise rarely seen in urban areas.”





# Flexcrete materials can be found on some of the world's most iconic buildings and structures.

*Golden Gate Bridge, San Francisco.  
Rapid reinstatement of potholes and worn areas to concrete deck.*



## Accreditations

With major investment made in testing and quality assurance programmes, you can be confident that Flexcrete materials will stand up to the highest scrutiny.

**Manufactured under quality management systems certified to ISO 9001, Flexcrete products benefit from CE marking in full compliance with BS EN 1504, the pan European standard for the protection and repair of concrete structures.**

Many of our products are also independently certified by the British Board of Agrément (BBA) and are approved for use in contact with drinking water. In addition, we offer a full range of products approved to London Underground Standard 1-085 'Fire Safety Performance of Materials'. As Flexcrete is also successfully accredited to both ISO 14001 (Environmental) and OHSAS 18001 (Occupational Health and Safety), our customers can have complete confidence that we have an ongoing commitment to improving quality, environmental and health and safety performance.

### Products in Action

Flexcrete materials can be found on some of the world's most iconic buildings and structures. Detailed on the right are just some of the high profile projects we have been involved in, along with a selection of organisations who have relied upon Flexcrete to solve complex construction problems.

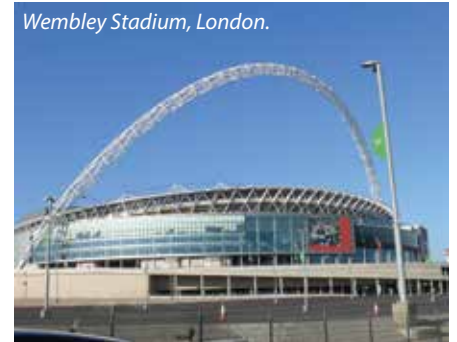
### Projects

- Channel Tunnel
- Doha Corniche, Qatar
- Dulles Metro, Washington D.C., USA
- Emirates Stadium, Arsenal Football Club
- Gorgon LNG Project, Western Australia
- King's Cross Station, London
- John F Kennedy Medical Center, Florida, USA
- London Gatwick & Heathrow Airports
- M25 London Orbital Motorway Widening
- Mactaquac Dam, New Brunswick, Canada
- Metrolink Transit System, Manchester
- Miraflores Palace, Caracas, Venezuela
- New Doha International Airport, Qatar
- Olympic Village, Stratford, London
- Øresund Link Tunnel, Denmark
- Parliament House, Helsinki, Finland
- Sea Life Sydney Aquarium, Australia
- The Shard • Wembley Stadium, London

### Clients

- Aston Martin • Audi • BBC • Boots
- Cadbury Schweppes • Chevron Texaco
- Coca-Cola • Crossrail • Environment Agency
- Exel Logistics • Hilton • Honda • Holiday Inn
- Highways Agency • Hutchison Ports • Hyatt
- Kopparberg • London Underground
- McCain Foods • McDonald's • Marks & Spencer
- Mercedes Benz • Ministry of Defence
- National Grid • Network Rail • NHS • Novotel
- Nuclear Decommissioning Authority • Pfizer
- Q-Park • Rolls Royce • Severn Trent Water
- Sky TV • Taiwan Steel Corporation
- United Utilities • Virgin • Wessex Water

Wembley Stadium, London.



### Market Sectors

**Our products are typically used across a broad cross-section of market sectors, including:**

- Civil Engineering and Infrastructure
- Buildings & Commercial Construction
- Utilities
- Coastal Structures
- Hygiene Sensitive Environments

“Flexcrete products have been relied upon to solve complex construction problems.”



Sea Life Sydney Aquarium, Australia.



# Flexcrete also offers materials to increase durability on new construction.

*Wembley Stadium Station Footbridge.  
Reinstatement of concrete cover.*





## A Wide Range of Engineered Solutions

Supported by an extensive international track record and a technical pedigree which is second to none, Flexcrete is the solution provider of choice for construction industry professionals.

### Solutions

#### Concrete Repair and Protection

**We offer an extensive range of engineering quality, waterproof concrete repair mortars for both structural and cosmetic repairs.**

Primers are not required and packs can be split and simply mixed with water. Our range includes **Monomix** mortars, easily applied up to 80mm in a single application, **Fastfill** which is designed to allow rapid return to service especially in heavily trafficked areas and our lightweight mortar **Monolite**. For a decorative, protective finish our anti-carbonation coatings are water-based, environmentally friendly and available in a wide range of attractive colours. With a design life of 10-15 years before first maintenance, **Monodex** coatings provide years of protection against general weathering, carbonation and water ingress, yet allow damp substrates to breathe without blistering or delaminating.

#### Concrete Reinstatement and Finishing

**As well as offering products for refurbishment projects, our materials are specified to increase durability on new construction.**

Our technical mortars and high performance cementitious coatings present an ideal solution to non-conformance with specification. Not only do they reinstate cover, they also provide structures with additional protection against freeze/thaw cycles, de-icing salts, water and chloride ion penetration, thus ensuring the life span of the structure is either achieved or extended. Surfaces can be finished with our **Monolevel** waterproofing renders and fairing coats and our **Unimatch** mortar is ideal for repairs which need to be matched to the parent concrete. Finally, our **Monodex** decorative membranes can be applied overall internally or externally to provide an aesthetic, yet highly durable protective finish.

#### Structural Waterproofing and Tanking

**We specialise in the manufacture of materials for structural waterproofing and tanking.**

Many of our mortars, fairing coats, renders and cementitious coatings are approved under Regulation 31(4)(a) for use in contact with drinking water and are WRAS listed. Our cementitious coatings are designed to offer the ultimate waterproof protection and resist 10 bar water pressure to meet the demands of deep level construction. Designed for application in damp environments, their ultra-low VOC content also makes them ideal for use in confined spaces. Products in our range also provide excellent chemical resistance when applied to areas such as bunds or dirty water installations, and when used in new construction, specialist linings can be applied without waiting for a full cure of the substrate concrete.

“Designed to offer the ultimate waterproof protection and resist 10 bar water pressure to meet the demand of deep level construction.”



Waste Water Treatment Works, Ashford.



London Underground.



## Solutions

### Enhanced Durability for Concrete and Steel

**We offer a range of highly engineered products to enhance durability and extend the service life of both concrete and steel in particularly demanding conditions.**

Our cementitious coatings are CE marked to EN 1504 and provide excellent barrier properties against acidic gases, water and chlorides with added resistance to chemicals, abrasion and impact. Where chloride ingress is to be arrested, a 2mm application of **Cementitious Coating 851** provides a practical solution, and where low cover is detected, it will confer the equivalent of 100mm of concrete cover. Epoxy modification extends the use of products such as **Cemprotec E942** to include stand-alone corrosion protection for ferrous metals including marine sheet piling or other environmentally sensitive projects such as London Underground, as well as for enhancement of chemical and abrasion resistance.

### Waterproofing of Roofs and Other Deck Areas

**Our high build, waterborne liquid roof coating Roofdex HB provides total weatherproof protection on both flat and pitched roofs.**

Equally suited for refurbishment and new build projects, it is compatible with a wide range of roofing substrates including asphalt, felt and concrete. It provides a completely seamless, waterproof barrier and is especially suited for use in extreme climatic conditions due to its ability to reflect sunlight and withstand temperature ranges from -50°C to +80°C without deterioration. We also offer a range of products for the waterproofing of green roofs, podium decks, floors and other deck areas. In addition, our self-smoothing, water-based cementitious flooring system **Cemprotec E-Floor** has exceptional abrasion resistance for heavily trafficked areas and can be applied to damp or green concrete to fast-track the construction process.

### Hygienic Coatings for Internal Walls and Ceilings

**Designed for use in hygiene sensitive environments such as food and drink manufacturing plants, hospitals and pharmaceutical facilities.**

Our water-based, resin-rich **Biodex** coatings provide a totally seamless, easy clean finish and leave no joints or crevices in which bacteria can thrive. Formulated using state-of-the-art encapsulated biocide technology combined with the latest generation silver ion additives to combat germs, they are proven to prevent the growth of a wide range of mould, fungus and bacteria - including E.coli, Aspergillus and Penicillium - whilst remaining non-leaching and non-toxic. Compliant with stringent hygiene legislation, they allow building owners and facilities managers to meet the highest standards of cleanliness in a hygienic operating environment.



“Formulated using state-of-the-art encapsulated biocide technology combined with the latest generation silver ion additives to combat germs.”



**Our products offer unsurpassed resistance to chloride ingress and have been used to protect coastal structures around the globe.**

*Royal Sovereign Lighthouse, English Channel.  
Repair and protection of defective concrete.*

specialist products  
**Advanced**  
Ultimate  
GLOBAL  
Solutions  
**Value engineering**  
proven track record  
*high performance*  
Coastal Structures  
**Corrosion Protection**  
Coatings  
*industry leaders*  
Hygiene Sensitive Environments  
Excellence  
technical mortars



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