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## Solutions for Concrete Weatherproofing



Built-in Active  
Biocide Technology



Environmentally Friendly  
Minimal VOC



Long Service Life  
Up To 15 Years

### Anti-Carbonation Protection

Flexcrete has developed the Monodex range of weatherproof, anti-carbonation coatings to provide outstanding protection against the ingress of carbon dioxide, oxygen and water, whilst allowing damp substrates to breathe without blistering.

**Reinforced concrete is not as durable as once anticipated and further protection is often necessary in order to achieve the desired design life.**

**Drab concrete can also be revitalised using imaginative colour schemes to improve the aesthetics and add value to the building.**

#### Market Leading Performance

With water-based, low hazard, high build formulations, **Monodex** coatings are ultra-fast drying, enabling two coat applications on the same day even in inclement weather conditions. They also incorporate an active in-film fungicide which inhibits the growth of mould, fungi and lichens and with an elastomeric formulation, are able to cover static cracks and bridge dynamic cracks.

Able to withstand extreme temperatures of -50°C to +80°C without deterioration, **Monodex** coatings also remain unaffected by exposure

to direct sunlight, even in the most aggressive of climates. Designed to last for up to 15 years, they will also considerably extend the life expectancy of new, existing and repaired concrete and masonry structures. **Monodex** coatings are available in a variety of attractive colours, with special colours to order, and the latest product in the range is **Monodex Clear**, a transparent, water-based anti-carbonation coating which demonstrates exceptional resistance to carbon dioxide diffusion.

#### The Highest Quality Products

**Monodex** coatings are environmentally friendly products, formulated with minimal VOC contents and the latest encapsulated biocide technology. They are manufactured in accordance with the strictest international quality, environmental and safety standards, including ISO 9001, ISO 14001 and OHSAS 18001.

All Flexcrete products are backed by independent testing and accreditation making them the preferred choice globally for their unparalleled reliability and durability.

### Class-Leading Results

Although each of the Monodex products offers unique characteristics, they also share a number of key benefits:

- Outstanding protection against carbonation and the effects of weathering
- Long-lasting, reliable performance
- Fast-drying and simple application
- Environmentally friendly formulations
- Suitable for a range of building substrates
- Manufactured in the UK in accordance with BS EN 9001 & BS EN 14001 standards



*Monodex coatings are regularly used to protect buildings and structures all around the world.*

### Monodex Specification Options

The Monodex product family offers a number of solutions to meet specific project requirements;

#### ► Monodex Smooth

A high performance water based, elastomeric, high build, decorative coating which provides protection against carbonation and water ingress, yet allows damp substrates to breathe. **Monodex Smooth** is ultra-fast drying which enables two coat applications to take place on the same day and facilitates year round usage. It resists the growth of mould and fungi and is ideal both for new construction and refurbishment projects.



Monodex Smooth features advanced polymer resin for excellent adhesion.

#### ► Monodex Ultra

A technically advanced, minimal VOC, water-based decorative coating which protects against carbonation and water ingress without entrapping moisture. It is fast drying for year round use externally with excellent fire performance characteristics for internal use. **Monodex Ultra** prevents water ingress and resists the growth of mould and fungi, making it the ideal low cost coating for both new build and maintenance projects.



Monodex Ultra has a matt finish & is available in a range of attractive colours.

#### ► Monodex Textured

A highly engineered, acrylic-based decorative wall coating with an attractive textured finish. Due to its high build, textured composition, **Monodex Textured** is ideal for use on buildings and structures that have a rough, uneven finish with surface defects and imperfections. This product will effectively disguise any defects and provide walls with a uniform appearance, vastly improving the aesthetic appearance of buildings.



Monodex Textured has encapsulated in-film biocides to resist mould & lichens.

#### ► Monodex Clear

A transparent, elastomeric coating, ideal for maintaining the surface appearance of the concrete substrate, whilst still providing excellent anti-carbonation and weatherproof protection. Designed for application to external walls and facades, **Monodex Clear** is ideal for decorative concrete finishes, exposed aggregate panels, textured concrete, heritage applications, coloured concrete and other cementitious substrates.



Monodex Clear has a clear, satin gloss finish that sheds dirt & retains clarity.

### Performance Characteristics

**Monodex** coatings offer class-leading performance and deliver long-term weatherproofing protection:

Product Name	Coverage Rate (2 coats)	Curing Time (Through Cure)	Equivalent Air Layer Thickness		Artificial Weathering
			Permeability to CO <sub>2</sub>	Water Vapour Transmission	
Monodex Smooth	0.2 litres/m <sup>2</sup> /coat	2-24 hours	121m	0.48m	20,000 hours
Monodex Textured	0.5 litres/m <sup>2</sup> /coat	6 hours @ 20°C	N/A	1.71m	2,000 hours
Monodex Ultra	0.2 litres/m <sup>2</sup> /coat	2-24 hours	201m	1.03m	20,000 hours
Monodex Clear	0.2 litres/m <sup>2</sup> /coat	2-12 hours	83m	0.42m	2,500 hours



Structural Repair & Protection Technology from Flexcrete

- Concrete Repair & Protection
- Protective Coatings
- Structural Waterproofing
- Enhanced Durability for Concrete & Steel
- Waterproofing of Roofs & Floors

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