



evolution | *ultimate*

Evolution® Ultimate offers the best possible specification in high performance self-compacting concrete with high strength and fluidity that allows concrete to flow through complex structures or detailed formwork with outstanding results.

Wherever design challenges the concrete performance with congested work areas or complex reinforcement, Evolution Ultimate is the natural choice.

ABOUT EVOLUTION HIGH PERFORMANCE CONCRETE

The product cost of high performance concrete can be more than offset by significant productivity and performance gains. Evolution Ultimate can flow from a single point (note: on large pours more than one point may be required), is self-levelling, self-compacting and eliminates the need to hire expensive vibration equipment, the cost of placing the concrete can be significantly reduced. In addition to the cost benefits there is also the improved on-site health and safety to take into consideration.

A COST COMPETITIVE SOLUTION

The product cost of high performance concrete can be more than offset by significant productivity and performance gains. Evolution Structural can flow into formwork or precast moulds from a single point, is self-levelling, self-compacting and eliminates the need to hire expensive vibration equipment, the cost of placing the concrete can be significantly reduced. In addition to the cost benefits there is also the improved on-site health and safety to take into consideration.

APPLICATIONS

- All challenging specialist applications
- Complex reinforced formwork
- Bespoke design solutions

ADVANTAGES

- Easily placed and economical
- For all applications requiring top performance and finish
- Reduced labour required for placing, levelling and finishing
- Suitable for challenging designs and complex formwork
- Enhanced workability and excellent early strength
- Self-levelling reducing placing time
- No compaction necessary
- Reduced noise and health & safety issues
- Sets with a smooth surface that requires minimal further finishing*

* N.B. Dependant on quality formwork and placement

TECHNICAL SPECIFICATION

Characteristic strength	As specified
Technical category	Self-levelling and self-compacting high performance concrete formulated to your specification
Material flow behaviour	SF2+/VS1 or SF3/VS1*
Other characteristics	Can be made watertight, pumped, fibre reinforced, and mixed to high strength
Applications	All challenging specialist applications and formwork

*Where pump applications are required please note material flow behaviour may need changing.
Note: For bespoke designs contact our Technical Department.

DELIVERY

The standard CEMEX Readymix truck mixer is ideal for straightforward deliveries to site, always ensure the area has suitable vehicle access and that sufficient labour is organised to handle the order. Where access or ground conditions may be a problem contact your local sales office well in advance. CEMEX Readymix also offers a range of flexible options for concrete delivery, including pumping.

SPECIFICATIONS & STANDARDS

All CEMEX Readymix products meet or exceed the relevant British and European standards. Certification is available on request.

RESPONSIBLY SOURCED

CEMEX's commitment to sustainable development and ethical and responsible sourcing has been formally recognised through this official accreditation.

By using CEMEX UK readymix products with the BES6001 certification our customers can score more credits under BREEAM, the most widely used environmental assessment method for business.

The BES6001 certification complements a range of other ongoing initiatives at CEMEX UK to reduce waste, water, energy use and CO₂ emissions, while increasing the use of alternative fuels and by-products in the manufacturing of building materials.

BES 6001

Responsible Sourcing

HEALTH & SAFETY

The elimination of vibrating equipment improves the working environment wherever Evolution concrete is being placed, by reducing the exposure of workers to noise and the risk of 'vibration white finger' caused by vibration. These improved practices and health & safety benefits, make Evolution an attractive solution for both precast concrete and civil engineering design and construction.

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Contact with concrete may cause irritation, dermatitis or severe alkali burns. There is serious risk of damage to the eyes. Wear suitable waterproof protective clothing, gloves and eye/face protection. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. After contact with skin, wash immediately with plenty of clean water. Keep out of reach of children. Contains Chromium (VI), which may cause an allergic reaction.

FAQ'S

Q. What curing is required?

A. Evolution Ultimate must be properly cured to control plastic shrinkage cracking. For example in high rise ensure there are wind deflectors around the side of the concrete to prevent wind blowing directly across the surface. Also use a spray on curing membrane applied in accordance with the manufacturers recommendations.

Q. Can I pump this concrete up high rise and what control measures do I need to take to reliably pump this concrete?

A. Evolution Ultimate is ideal and can be used extensively for pump applications, however it will compact in the lines if left for any period of time. Consequently good pump practice is very important and if there is a delay between loads then the pipework should have the "pig" put through. Any serious pump application must use as large a pump as possible, and of the positive displacement type, to apply minimum energy to the concrete. Auger or small bore, unless for very short distances, are not recommended. If application demands high head pump placement, please contact us so we can ensure the product supplied is suitable for the application.

Q. Does the formwork need to be specially designed?

A. The formwork needs to be liquid tight and capable of sustaining nearly hydrostatic pressure as during placement the complete section could be fluid concrete. The formwork should be as permeable as possible. If using steel then correct type of release agent must be used and applied as thinly as possible. The formwork faces must be kept spotlessly clean if optimum finish is required.

Q. What placement controls are needed?

A. Evolution Ultimate must be placed and not allowed to free-fall into formwork, particularly if a quality finish is required. Tremmie pipes should be used to about 10cm above the concrete surface and the concrete placed in a smooth continuous pour allowing air to be pushed to the sides of the moulds and allowed to escape upwards.

For further information please contact Customer Services on:

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