

# Extra<sup>®</sup>

PORTLAND-FLY ASH  
BS EN 197-1 – CEM II / B-V 42,5 N



Cemex Extra is a factory produced Portland-fly ash cement that offers enhanced durability when compared to conventional Portland cements.

The enhanced properties of the product provide benefits in a wide range of concrete, mortar, render, screed and grout applications. Cemex Extra incorporates fly ash at controlled levels reducing its carbon footprint whilst creating a very consistent cement with improved characteristics.

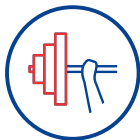
Cemex Extra is suitable for use as an alternative to Sulfate-resisting Portland cement in most aggressive ground conditions.

*Vertua*<sup>®</sup>  
LOWER CARBON

## Features and benefits



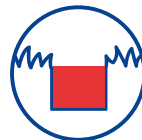
Reduced risk of thermal cracking



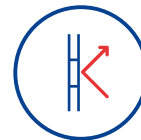
Strength gain after 28 days



Lower embodied CO<sub>2</sub> than CEM I



Sulphate resistant properties making it ideal for below ground



Enhanced durability gives increased design life and reduced whole life costs



Improved workability, cohesion and finishing

 **CEMEX**

## Availability, delivery & storage

Cemex Bulk Cements are available across the UK.

Delivery is by pressurised bulk tanker in 28-30 tonne shipments and bulk bags ranging from 0.5-1.5 tonnes are available.

All Cemex drivers are fully trained and experienced in the discharging of our vehicles. Please ensure the site is accessible with no obstructions. A pre-delivery inspection can be arranged to assess the site for suitability, just ask. For further information on the safe delivery of our products please refer to our Information Sheet 'Bulk Cementitious Site Safety Guide' available separately. Silo product identity discs are available on request by calling Customer Services on 0800 353 433.

To avoid premature deterioration of the reducing agent incorporated in the cement for the control of soluble chromium (VI) storage should be in accordance with the recommendations given on our despatch documents.

## Health & safety

Contact with wet cement, wet concrete or mortar may cause irritation, dermatitis or severe alkali burns. Contact between cement powder and body fluids (e.g. sweat and eye fluids) may also cause irritation, dermatitis or 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.

## Product applications

To produce a durable concrete using Cemex Extra attention should be paid to the use of the correct materials, mix design and workmanship. BS 8500-2; Concrete, Complementary British Standard to BS EN 206-1, gives guidance for using a CEM II/B-V cement in concrete, under various exposure conditions.

Once in place, concrete requires moisture to develop its full strength and premature drying out must be avoided. In normal conditions and at temperatures in excess of 10°C, concrete should be cured under damp conditions for 1 to 3 days, (cover with curing membrane, plastic sheeting or wet hessian); at temperatures below 10°C, this curing time should be doubled. Curing is particularly important with CEM II cements as early strengths may be slightly lower than for CEM I products. Protection against freezing is required until the concrete reaches a compressive strength of 5 MPa.

All normal concrete admixtures (eg plasticisers, air entrainers, retarders) may be used with Cemex Extra. Trials should, however, be carried out to establish required dosage rates and air-entrainers should be suitable for use with fly ash. A range of admixtures complying with BS EN 934 are also available from Cemex.

## Mixes to resist chemical attack

Please refer to the latest version of the Building Research Establishment (BRE) Special Digest 1.

The applicable SD1 notation for Cemex Extra is CEM II/B-V + SR which should be used to obtain recommended minimum cement contents and maximum water : cement ratios required for classes of aggressive ground conditions.

## Product data

Routine test data including fineness, setting time, soundness, alkali and chloride levels and BS EN 196-1 mortar prism strengths are available in the form of weekly Cement Test Reports. Other test data including chemical analyses are also available on request.

## CEM II information

Cemex is committed to continuous improvement in environmental and sustainability performance, particularly through utilising recycled content, minimising landfill waste and improving our energy efficiency.

CEM II cements are factory produced Portland composite cements. This product contains a minimum of 25% fly ash which is a by-product of Coal Fired Power Stations, making not only a more sustainable cement but also enhancing its performance characteristics.

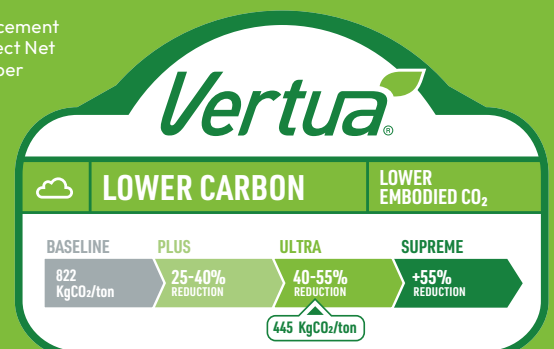
## Vertua - More sustainable by design

The Vertua 'lower carbon' logo and label is shown on selected cement products characterised by their unique composition.

These cements contain the highest quality ingredients to reduce the carbon footprint of the finished product.

Cements bearing this sign are guaranteed to **reduce CO<sub>2</sub> emissions in the process of their manufacture by over 25%**, than conventional Portland cement CEM I\*. Our cements labelled as **Vertua Ultra have over 40% lower CO<sub>2</sub> emissions** with comparable performance.

\*Basis of calculation: GCCA standard value for cement clinker emissions (global weighted average of direct Net emissions of cement clinker) from Getting the Number Right (GNR) in 2000: 862 kg CO<sub>2</sub>/t cement clinker. Reference value Cement (CEM I with 95% cement clinker content): 822 kg CO<sub>2</sub>/t cement. (GWP figures calculated to recognised standards are available on request) Vertua is a Cemex Group trademark that highlights specific characteristics of Cemex Group products regarding environmental impact as described in the corresponding Fact Label. The Vertua label is not intended as a certification. Cemex defines all labels on industry standards, the data in this label is based on operational performance and cement emissions taken from actual figures. This is subject to change and will be reviewed and updated annually.



## Declared performance and UKCA marking



Cemex UK Bulk Cements conform to the relevant requirements of UK Designated Standard BS EN 197-1 or BS EN 197-5 and are subject to third party accreditation by a UK Approved Body in accordance with the most rigorous level of 'assessment and verification of constancy of performance' (AVCP 1+) specified in the UK Construction Products Regulation. This provides:

- Independent confirmation that products conform fully to the relevant technical specification
- Regular independent auditing of products by UKAS accredited laboratories
- Regular independent evaluation of test data and appraisal of our Factory Production Control
- Traceability of cement deliveries to their source of manufacture

Declarations of Performance in respect of the essential characteristics of our products are available from our website at [cemex.co.uk/ukcamarks](https://cemex.co.uk/ukcamarks) Bulk Cement UKCA mark information can also be found on our despatch documentation as required by the UK Construction Products Regulation.

# UK CA

## Technical Services and Product Support Helpline:

Cemex UK provides support for our products through the dedicated support channels. Routine test data in the form of Weekly Cement Test Reports, Product Conformity Certificates etc are available through our online portal, please contact us for further details and registration.

### Product Support:

 **0800 667 827**

 **[gb-enquiries@cemex.com](mailto:gb-enquiries@cemex.com)**

### Bulk Cement Customer Services:

 **0800 353 433**

 **[customerservices@cemex.co.uk](mailto:customerservices@cemex.co.uk)**

 **[cemex.co.uk/bulk-cement-products](https://cemex.co.uk/bulk-cement-products)**

Cemex is a global leader in the building materials industry providing high-quality, innovative products and exceptional service to both customers and the community in the most sustainable and efficient way possible.

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