

Portland Cement[®]

BS EN 197-1 – CEM I 52,5N/R

The original “general purpose” product, Portland cement is used in various applications, from concrete, mortar and render to the manufacture of precast units such as blocks, bricks and tiles.

Cemex Portland is produced by burning a precisely specified mixture of raw materials containing lime, silica, alumina and small quantities of other materials to form a clinker. The clinker, together with calcium sulfate to control setting, is then ground to produce cement of the required fineness. Up to 5% of minor additional constituents (typically, limestone, fly ash or granulated blastfurnace slag) may be incorporated at the grinding stage.



Features and benefits



Compatible with Fly ash and Ground Granulated Blastfurnace Slag



Consistency in manufacture



Can be used with Admixtures to produce concretes suitable for a wide range of applications



7 and 28 day strength

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 (eg 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. Contains chromium (VI), may cause allergic reaction, the risk of which is increased if the cement is used beyond the declared storage period shown on despatch documents.

Declared performance & 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 Bulk Cement UKCA mark information can also be found on our despatch documentation as required by the UK Construction Products Regulation.



Product applications

To produce a durable concrete using Cemex Portland, the cement content of the mix must be maintained at an acceptable level. BS 8500; Concrete – Complementary British Standard to BS EN 206-1, gives guidance for using cements in concrete for various exposure classes, aggressive ground conditions and intended working life.

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. Protection against freezing is required until the concrete reaches a compressive strength of 5 MPa. If temperatures in excess of 30°C are experienced in the first 24 hrs of curing, then some reduction in 28-day strength can be expected.

Fly ash or ground granulated blastfurnace slag (ggbs) may be added, provided these comply with the appropriate standard and that due allowance is made in the mix design.

All normal concrete admixtures (eg plasticisers, air-entrainers, retarders) may be used with Cemex Portland. A range of admixtures complying with BS EN 934 are also available from Cemex.



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**

Bulk Cement Customer Services:

 **0800 353 433**

 **customerservices@cemex.co.uk**

 **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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