



Material Datasheet

EXTRA Portland-fly ash cement

BS EN 197-1 - CEM II/B-V 42,5 N

CEMEX Extra is a factory produced Portland-fly ash cement that complements our range of Portland (CEM I) cements. The enhanced properties of the product provide benefits in a wide range of concrete, mortar, render, screed and grout applications. CEMEX Extra is manufactured 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, a selected fly ash and calcium sulfate, (to control setting), are interground to produce 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.

Features/benefits/applications

- For use in concrete, mortar, render, screed and grout.
- Improved workability, cohesion and finishing.
- Ideal for self-compacting concrete.
- Enhanced sulfate resistance (Refer to BS 8500 or BRE SD 1 for guidance).
- Low effective alkali content gives a reduced risk of ASR.
- Reduced permeability and chloride ion diffusion
- Reduced risk of thermal cracking
- Enhanced durability gives increased design life and reduced whole life costs.
- Consistent, convenient and cost effective.

Delivery and storage

Delivered in pressurised bulk powder tankers by road, the standard load size is 28 - 30 tonnes. Silo identity disks can be provided for individual products by calling Customer Services on 0800 353433.

Make sure you're ready to receive and store your bulk material by viewing the checklist shown on www.cemex.co.uk

All CEMEX drivers are fully trained and experienced in the discharging of our vehicles, please do all you can to ensure your site is accessible with no obstructions. If you are in any doubt, we can send an engineer to advise you - just ask.

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

Health and 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. 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.

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Product applications

To produce a durable concrete using CEMEX Extra, the cement content of the mix must be maintained at an acceptable level. 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 (e.g. 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 certification

CEMEX Extra has EC certification via BSI Product Services and bears the CE marking to indicate conformity to all requirements of its harmonised technical specification and a presumption of conformity to the essential requirements of the Construction Products Directive.

Certification scheme features

- Independent confirmation that products comply fully with technical specification.
- Independent audit testing of products by UKAS accredited laboratories.
- Independent evaluation of test data and appraisal of factory production control.
- Traceability of cement deliveries to the manufacturing works.
- Highest level of attestation of conformity (Level 1+) to the Construction Products Directive.

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. CEM II cements from CEMEX are of the Portland-fly ash type. 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.



For further information please contact
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