



# CEMENT

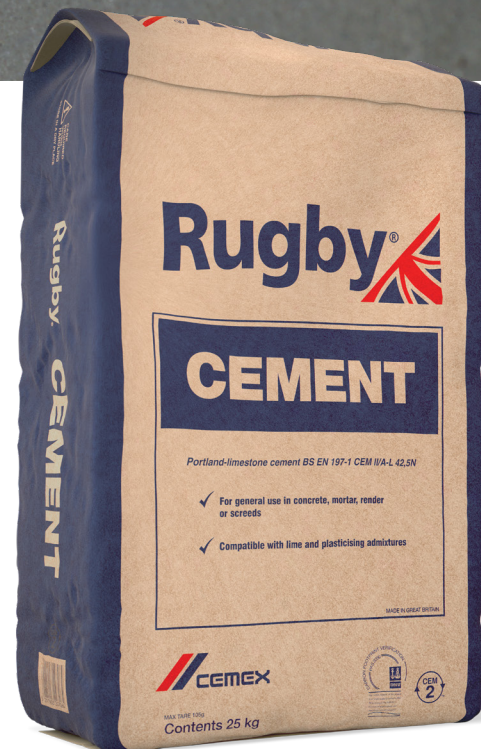
## PORTLAND-LIMESTONE CEMENT

BS EN 197-1 – CEM II / A-L 42,5 N

CEMEX is a world leader in packed cement, backed with excellent technical expertise in blended cements and fly ash for more than 20 years.

The Rugby® brand signals a refreshed, coherent and extended range for the future and our commitment to sustainable development, reliability and availability.

Rugby® Cement may be used in various general applications, for concrete, mortar and render.



### FEATURES

- ALL ROUND GENERAL PURPOSE CEMENT
- GREY IN COLOUR
- CONSISTENT IN QUALITY, STRENGTH AND PERFORMANCE
- MEETS CONFORMITY CRITERIA IN BS EN 197-1
- CAN BE USED WITH ADMIXTURES
- CHROMIUM (VI) COMPLIANT

### BENEFITS

- GOOD VALUE
- FLEXIBLE FOR A RANGE OF APPLICATIONS AND PROJECTS

### APPLICATIONS

- FOR USE IN CONCRETE, MORTAR AND RENDER
- COMPATIBLE WITH LIME AND PLASTICISING ADMIXTURES USED TO PRODUCE WORKABLE MORTARS FOR USE IN BRICK/BLOCK LAYING AND RENDERING

### DELIVERY & STORAGE

Delivered by road in a curtain-sided vehicle, the standard load size is 28 tonnes. All CEMEX drivers are fully trained and experienced in the safe delivery and unloading of our vehicles, but please do all you can to ensure your site is accessible with no obstructions.

Rugby® Cement is available in paper sacks delivered as shrink-hooded, 1.4 tonne modules on non-chargeable but returnable pallets. To avoid premature deterioration of the reducing agent incorporated in the cement for control of soluble Chromium (VI), storage should be in accordance with the recommendations given on bags and despatch documents.

### HEALTH & SAFETY

Contact with wet cement, 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 bags and despatch documents.

# PRODUCT APPLICATIONS

## CONCRETE

Sharp (concreting) sand should be used, together with 20mm maximum size coarse aggregate and the minimum amount of water necessary for placement and compaction. Excess mixing water reduces both strength and durability of concrete. Use of separate sand and coarse aggregate is preferable to all-in aggregate (ballast).

The following table gives nominal mix proportions by volume for general applications:

	PROPORTIONS BY VOLUME	AMOUNT PER M <sup>3</sup> (APPROX)
Rugby® Cement	1	310 kg
Sand	2	655 kg
20mm aggregate	3	1130 kg
(all-in aggregate)	(4)	(1785 kg)

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 of fresh concrete against freezing is essential and placement under such conditions should be avoided if possible.

## MORTAR

Rugby® Cement is fully compatible with hydrated lime and the plasticising admixtures used to produce high workability mortars for use in brick/block laying and rendering. If, however, production of mortar on site without the use of lime or admixtures is required, then Rugby General Purpose Mortar is recommended.

	RUGBY® CEMENT : SAND (WITH PLASTICISER)	RUGBY® CEMENT : LIME : SAND
General usage (low-rise housing)	1 : 5	1 : 1 : 5
Strong (free-standing walls)	1 : 3	1 : ½ : 4

## RENDER

In rendering applications, it is important when applying two-coat renders (normal practice) that the second coat is either thinner or weaker than the scratch coat to avoid problems with shrinkage and de-lamination. A suitable sand for rendering should be chosen. Mix proportions for rendering over strong and moderately strong backgrounds are given below:

	RUGBY® CEMENT : SAND (WITH PLASTICISER)	RUGBY® CEMENT : LIME : SAND
First coat (strong backgrounds)	1 : 3	1 : ½ : 4
First coat (moderate backgrounds)	1 : 5	1 : 1 : 5
or Second coat (moderate or strong backgrounds)		

Once placed, mortar requires measures to prevent premature loss of moisture and the advice given on curing of concrete is again applicable.

## DECLARED PERFORMANCE AND CE MARKING

CEMEX cements conforming to the harmonised European standard, BS EN 197-1, are subject to rigorous third party certification procedures by an EU Notified Body, in accordance with assessment and verification of constancy of performance (AVCP) system 1+.

Declarations of Performance, in respect of essential characteristics, are available from our UK website ([www.cemex.co.uk/cemarks](http://www.cemex.co.uk/cemarks)).

The CE marking is affixed to packaging and/or despatch documents as required by the Construction Products Regulation.

## CERTIFICATION SCHEME FEATURES

- Independent confirmation that products conform fully to 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
- Most rigorous AVCP system (1+) specified in the Construction Products Regulation

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V1 072019

