



PREMIUM **Portland-limestone cement**

BS EN 197-1 – CEM II / A-L 32,5 R



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

The Rugby® brand signals a refreshed, coherent and extended range for the future. It not only reinforces our CEM II products and our commitment to sustainable development, but also stands for improved reliability and availability. More specific information on CEM II cements can be found on the reverse of this datasheet.

Rugby® Premium is a versatile cement, developed for use by the general builder or DIY enthusiast that may be used in concrete, render, mortar and screeds. Based on Portland cement clinker, Rugby® Premium also includes a selected limestone and additives to produce a lighter coloured cement with enhanced finishing characteristics.

DELIVERY AND STORAGE

Delivered by road in a curtain-sided vehicle, the standard load size is 27-28 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® Premium is available in 25kg paper sacks delivered as shrink-hooded, 1.4 tonne modules on non-chargeable 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 our recommendations given on bags and 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 (eg sweat and eye fluids) may also cause irritation, dermatitis or burns. There is serious risk of damage to the eyes. Wear suitable 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.

FEATURES/BENEFITS/APPLICATIONS

- Lighter colour
- For use in concrete, mortar, render and screed
- Reduced admixture requirements in mortar
- Improved workability, cohesion and finishing
- Improved resistance of hardened mortar or concrete to freeze-thaw attack
- Consistent, convenient and cost effective
- Chromium (VI) compliant

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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 tables give nominal mix proportions by volume for common applications:

General purpose mix application:

For most uses except foundation work and outdoor paving.

	PROPORTIONS BY VOLUME	AMOUNT PER M ³ (APPROX)
Rugby Premium	1	310 kg
Sand	2	655 kg
20mm aggregate	3	1130 kg
(all-in aggregate)	(4)	(1785 kg)

Foundation mix application:

For footings, foundations and bases for precast paving.

	PROPORTIONS BY VOLUME	AMOUNT PER M ³ (APPROX)
Rugby Premium	1	265 kg
Sand	2½	690 kg
20mm aggregate	3½	1110 kg
(all-in aggregate)	(5)	(1800 kg)

Paving mix application:

For all exposed in-situ paving – eg pool surrounds and driveways.

	PROPORTIONS BY VOLUME	AMOUNT PER M ³ (APPROX)
Rugby Premium	1	385 kg
Sand	1½	575 kg
20mm aggregate	2½	1150 kg
(all-in aggregate)	(3½)	(1725 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. Curing is particularly important with CEM II cements as early strengths may be slightly lower than for CEM I products. Protection of fresh concrete against freezing is essential and placement under such conditions should be avoided if possible.

MORTAR

Rugby® Premium may be used in the proportions shown below to produce satisfactory cement: sand mortars with clean, well-graded sands. Some plasticiser addition may be necessary but this would normally be less than the recommended dosage. Rugby® Premium may also be used with Hydrated Lime.

The table opposite gives volumetric mix proportions for general mortar applications:

	RUGBY PREMIUM : SAND (WITH PLASTICISER)	RUGBY PREMIUM : LIME : SAND	EQUIVALENT BS EN 998-2* MORTAR CLASS
General usage (low-rise housing)	1 : 5	1 : 1 : 5	M 4
Strong (free-standing walls)	1 : 3	1 : ½ : 4	M 6

*See BS EN 998-2 Table NA.1.

Rugby® Premium should be used in the proportions below for general 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. Curing of applied render made with Rugby® Premium is important and premature drying out must be avoided.

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

Note: Check colour compatibility with any existing work as Rugby® Premium is significantly lighter than Rugby® Cement.

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).

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

For further information please contact Customer Services on:

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