

- Lighter colour, ideal for use in all applications where colour is important
- For use in concrete, mortar, render and screed
- Reduced admixture requirements in mortar
- Improved workability, cohesion, finishing and resistance of hardened mortar or concrete to freeze-thaw attack
- Consistent, convenient and cost effective
- Chromium (VI) compliant – intended to reduce the risk of allergic contact dermatitis

Rugby® PREMIUM CEMENT



- For general use in any building application, including concrete, mortar, render, screed or grout
- Compatible with lime and plasticising admixtures
- Chromium (VI) compliant – intended to reduce the risk of allergic contact dermatitis

Rugby® CEMENT



- Suitable for applications where high strength is required
- Conforms to class 52,5N ensuring high strength
- Helps counteract the effects of cold weather due to increased heat development
- Ideal for high strength concrete applications
- Chromium (VI) compliant – intended to reduce the risk of allergic contact dermatitis

Rugby® HIGH STRENGTH CEMENT



- Sets hard within 1 hour
- For use in applications where time is of the essence
- Ideal for concrete, mortar, render and floor screed repairs
- Suitable for concrete drives, steps, paths and kerbs
- Also suitable for fixing posts, railings and copings
- Chromium (VI) compliant – intended to reduce the risk of allergic contact dermatitis

Rugby® FAST SET



- For architectural and decorative applications
- Ideal for very light coloured concrete and mortar
- Enhances colour when used with pigments
- Reduces pigment costs
- More vivid colours can be achieved compared to using grey cements
- Rapid strength gain, ideal for use where early stripping times are required
- Chromium (VI) compliant – intended to reduce the risk of allergic contact dermatitis

Rugby® WHITE CEMENT



- Improves workability and water retention in mortar
- Ideal for use in traditional cement/lime/sand mortars
- Provides better bond and reduces risk of cracking
- Assists in soil stabilisation, water and sewerage treatment
- Suitable as an acidity regulator for land in agricultural use

Rugby® HYDRATED LIME



- Ideal for use in concrete and mortar applications where sulfates are present
- Suitable for mortar and concrete below damp proof course
- Increased resistance to chemicals present in soils or ground water
- Refer to BRE Special Digest 1 (for CEM II/B-V + SR), a guide for concrete in aggressive ground conditions
- Chromium (VI) compliant – intended to reduce the risk of allergic contact dermatitis

Rugby® SULFATE CEMENT

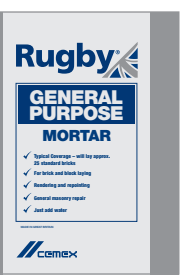


Also available:



Rugby® POST MIX CONCRETE

- For fixing fence posts, gates and rotary washing lines
- 1 bag per standard 70 x 70 x 2400mm fence post
- No requirement for mixing
- Sets in 10 minutes



Rugby® GENERAL PURPOSE MORTAR

- For brick and block laying
- For rendering and repointing
- For general masonry repair
- Just add water
- 1 bag will produce enough mortar to lay 25 standard house bricks



Rugby® 40 N/mm² GENERAL PURPOSE CONCRETE

- Heavy duty concrete designed for industrial and commercial applications
- Typical coverage – 0.15m² at 75mm thickness



Rugby® KILN DRIED SAND

- For use as jointing sand in all types of block paving work
- Use directly from the bag and brush into paving with a wide soft brush
- Typical coverage – 5m² of standard block paving



Rugby® BLACK BITUMEN MACADAM

- For repairing tarmac drives and pathways
- Use direct from the bag
- Sets hard within 12 hours
- Typical coverage – 0.8m² at a compacted 14mm thickness



Rugby® POST MIX PROFESSIONAL

- Finer aggregate for smoother finish
- For fixing posts, signs and bollards
- 1 bag per post
- Sets in 10 minutes
- Dry-fill then water



Rugby. Tackles anything.

For further information please contact Customer Services on:
 Tel: 0808 145 1900 Fax: 01788 517 453 Product Support Helpline: 0800 667 827 E-mail: gb-cementsales@cemex.com
www.cemex.co.uk/cement

Product Application Chart



	Rugby® PREMIUM CEMENT	Rugby® CEMENT	Rugby® SULFATE	Rugby® HIGH STRENGTH	Rugby® FAST SET	Rugby® WHITE	Rugby® HYDRATED LIME
General purpose concrete	■	■		■			
Below ground concrete/DPC	■	■	■	■			
Cold weather concreting			■	■		■	
Precasting						■	
Mortar	■	■	■	■		■	■ ●
Screeding	■	■	■	■			
Render	■	■	■	■		■	■ ●
Enhanced Sulfate resistance			■				
Enhanced freeze/thaw durability	■						
Decorative light/finishes						■	
Concrete/mortar repair work	■	■			■		
Fixing fence posts					■		
High strength				■		■	
Key	■ Recommended for best performance ■ Suitable for this application ● Mix with Rugby cements						

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Mixing Guide

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.

General purpose mix application:

For most uses except foundation work and outdoor paving.

	Proportions by volume	Amount per m³ (approx)
Cement	1	310kg
Sand	2	665kg
20mm aggregate	3	1130kg
All-in sand and gravel or ballast	4	1785kg

Paving mix application:

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

	Proportions by volume	Amount per m³ (approx)
Cement	1	385kg
Sand	1½	575kg
20mm aggregate	2½	1150kg
All-in sand and gravel or ballast	3½	1725kg

Foundation mix application:

For footings, foundations and bases for precast paving.

	Proportions by volume	Amount per m³ (approx)
Cement	1	265kg
Sand	2½	690kg
20mm aggregate	3½	1100kg
All-in sand and gravel or ballast	5	1800kg

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.

Concrete using Rugby® Rapid Cement and Rugby® Sulfate Cement

For more information on mixing guides using our specialist cements, please visit www.cemex.co.uk/rugby where you will be able to download specific product datasheets with mixing guidelines. Alternatively please call our sales Customer Service Centre on 0808 145 1900.

Mortar

Rugby+ range of cements are fully compatible with hydrated lime and the plasticising admixtures used to produce high workability mortars for use in brick/block laying and rendering. However, the production of mortar on site with Rugby® Premium will require less admixture due to its formulation.

	Cement:Sand (with plasticiser)	Cement:Lime:Sand	Equivalent BS EN 998-2 Mortar Class
General usage (low rise housing)	1:5	1:1:5	M 2,5
Strong (free standing walls)	1:3	1:½:4	M5

Mortar using Rugby® Fast Set Cement and Rugby® White Cement

For more information on mixing guides using our specialist cements, please visit www.cemex.co.uk/rugby where you will be able to download specific product datasheets with mixing guidelines. Alternatively please call our sales Customer Service Centre on 0808 145 1900.

Rendering

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.

	Cement:Sand (with plasticiser)	Cement:Lime:Sand
First coat (strong backgrounds)	1:3	1:½:4
First coat (moderate backgrounds) or Second coat (moderate and strong backgrounds)	1:5	1:1:5

Rendering using Rugby® White Cement

For more information on mixing guides for render using Rugby® White cement, please visit www.cemex.co.uk/rugby where you will be able to download a specific product datasheet with mixing guidelines. Alternatively please call our sales Customer Service Centre on 0808 145 1900.