



HYDRAULIC LIME

EN 459 -1

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

Rugby® Hydraulic lime (HL) is a term for varieties of lime (calcium oxide), or slaked lime (calcium hydroxide), used to make lime mortar which set through hydration. Suitable for general-purpose use for mortar/pointing or rendering and is quality assured to EN 459-1.



FEATURES

- USED TO PRODUCE DURABLE MORTAR, RENDER AND PLASTERS
- IMPROVED WATER RETENTION IN MORTARS AND RENDERS
- ENHANCED RESISTANCE TO FREEZE/THAW ATTACK
- LESS WATER BLEED
- LOWER WATER DEMAND

BENEFITS

- EASIER TO WORK WITH
- MORE COHESIVE MIX

APPLICATIONS

- IDEAL FOR BRICK AND BLOCK LAYING, RENDERING OR PLASTERING
- IDEAL FOR HISTORIC RESTORATION, HERITAGE AND GRADE II LISTED BUILDINGS

DELIVERY & STORAGE

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

Rugby® Hydraulic Lime is available in paper sacks delivered as shrink-hooded, modules on non-chargeable pallets. Rugby® Hydraulic Lime should be stored off the ground, under clean and dry conditions and covered with a thin plastic sheet. Bags should be used in strict rotation.

HEALTH & SAFETY

Rugby® Hydraulic Lime is an alkaline substance which can cause irritation, dermatitis or burns and should therefore be used and handled with care using protective goggles, gloves and clothing during batching, mixing and application. Safety instructions can be found in our Health and Safety Data Sheets (available on request) and also on the back of each bag. These instructions should be brought to the attention of anyone who handles or uses our products.

PRODUCT APPLICATIONS

NATURAL HYDRAULIC LIME | NHL 3.5

CERTIFIED EN 459-1

CHEMICAL VALUES

Total-CaO	(CaO+MgO)	ca. 76,60 %
Crystal water		ca. 14,80 %
Free water		ca. 0,00 %
Ignition loss (1000 +/- 25o C)		ca. 24,30 %

PHYSICAL VALUES

Sieve 0,09 mm		≤ 1,00%
Sieve 0,20 mm		≤ 1,50%
Expansion	Tablet method	≤ 2,00mm
Water requirement		ca. 335g
Penetration measure		≥ 22mm
Air content		≤ 3,00 Vol%
Compressive strength	After 28 days	≥ 3,50 N/mm ²

Bulk Density: 43 kg/l

MORTARS

Typical hydraulic mortar mixes & applications shown below:

MORTAR MIX PROPORTIONS (BY VOLUME)

NHL 3.5: SAND	TYPICAL APPLICATION	NHL 5: SAND	TYPICAL APPLICATION
1:1	Walls below DPC Chimneys Earth retaining walls	1:1	Submerged masonry
1:2	External walls Copings and cappings Parapets and sills	1:2	Walls below DPC Chimneys Earth retaining walls
1:3	Facing to solid construction	1:3	Copings and cappings Parapets and sills
1:4	Internal walls	1:3-4	Walls above DPC

RENDERS

For the selection of suitable render mixes (whilst following guidance for mortars) must also consider the nature of the substrate the render will be applied to. The type of sand used may also affect the final finish. Guidance on selection of mixes for different substrates is shown in table below:

RENDER MIX PROPORTIONS NHL

SUBSTRATE	3.5:SAND (BY VOLUME)		3.5:SAND (BY VOLUME)	
	BASECOAT	FINISH COAT	BASECOAT	FINISH COAT
Weak or porous (soft brick)	1:2	1:25	-	-
Medium strength	1:2.5	1:25	1:3	1:3
Impervious or dense brick	1:2.5	1:3	1:2.5	1:3
Plasterwork	1:2	1:3	-	-

DECLARED PERFORMANCE AND CE MARKING

The Declaration of Performance, in respect of essential characteristics, is 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.

MIXING

Sand

Sand for lime mortars and renders should be sharp sand, clean and well graded, free of clay or silt. Building (soft) sands, or sands containing clay and silt, can cause excessive shrinkage.

Water

Mixing water should be clean and potable. Adding too much water should be avoided.

Mixing

Sufficient mixing is required to ensure the lime is uniformly dispersed throughout the mortar or render.

Mechanical mixing is best option and mixing times should be significantly longer than for cement-based mortar.

CERTIFICATION SCHEME FEATURES

- Independent confirmation that products conform fully to technical specification
- Independent evaluation of test data and appraisal of factory production control

For further information please contact Customer Services on:

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