

HYDRALIME



bringing materials to *life*™



HYDRATED LIME

A high calcium, non hydraulic, hydrated lime which conforms to the requirements of BS EN 459-1 'Building Lime'.

Building Applications

Hydralime is a quality-assured BS EN 459-1 CL 90-S hydrated lime, with independent third party certification and carries CE marking. Hydralime is used to improve the plasticity, cohesiveness and water retention of Portland cement mortars and renders.

Hydralime may be used with Procem, Mastercrete, General Purpose Cement, Ferrocete, Snowcrete and Sulfacete.

Note that as Hydralime is non-hydraulic, it is not suitable for use in mortars and renders without a Portland cement.

The maximum benefit of Hydralime can be obtained by its use in a lime putty. This is produced by adding Hydralime to water in a clean container with constant stirring to form a paste, which is allowed to condition by standing for 24 hours before use. Do not allow to dry out during this time.

Guidance on mortar and render mixes and their suitability for various locations and conditions are given in the following:

BS 5628: *Part 3 Use of Masonry*

BRE Digest 362: *Building Mortar*

BS EN 13914-1: *Design, preparation and application of external rendering and internal plastering.*

A mortar of 1:1:5 to 6 (by vol) Portland cement:Hydralime:sand is equivalent to a 1:5-6 (by vol) Portland cement:sand + plasticiser in plasticity and strength.

Other Applications

Information regarding applications other than use in renders and mortars can be obtained from the contacts listed overleaf.

Manufacture

Hydralime is manufactured by the following method:

- Calcining limestone or chalk in a kiln at high temperature to produce quicklime.
- Hydrating (slaking) the quicklime under carefully controlled conditions to produce a fine, dry, white, calcium hydroxide powder.

Storage

As Hydralime readily absorbs moisture and carbon dioxide it should be stored in a cool, dry, draught-free building. Packs should be stored flat, clear of the ground and away from walls to avoid the possibility of condensation.

This product should be stored in unopened bags and should be stacked in a safe and stable manner.



Availability

Hydrated lime is available in 25 kg bags throughout the United Kingdom.

Conditions of Use

- Hydralime may not be used for general concreting, screeds or grout.
- For mortars and renders Hydralime should always be mixed with cement and sand components.
- The final finish quality of this material will depend on the operative having the required skills and a familiarity with the material and its application methods.
- Normal site practice to the relevant British and European Standards should always apply. Lafarge Cement UK cannot be held responsible where workmanship has not been carried out in accordance with good practice.
- Manual handling should comply with The Manual Handling Operations Regulations 1992.

Technical Support

Further information or specification advice on Hydralime and the full range of Lafarge cements can be obtained through the contacts listed.

Health and Safety

Contact between Hydralime powder and body fluids (eg sweat and eye fluids) may cause irritation, dermatitis or burns. Hydrated lime is classified as an irritant under the Chemicals (Hazard Information and Packaging) Regulations.

For further information, including control of soluble hexavalent chromium, refer to the appropriate Lafarge Cement Health and Safety Information Sheets.



The information in this datasheet is accurate at the time of printing, but Lafarge Cement UK reserve the right to amend details as part of their product development programme.

Typical properties

Bulk density		
Aerated	(kg/m ³)	400 to 500
Settled	(kg/m ³)	500 to 575
Colour	L value	93.0 to 96.0
Fineness		
Surface area	(m ² /kg)	1300 to 2000
Finer than 180 microns	(%)	99.5 to 100
Finer than 90 microns	(%)	97.0 to 99.5
Finer than 45 microns	(%)	90.0 to 93.0
Neutralising value, as CaO	(%)	73.0 to 75.0
Available lime, as Ca(OH) ₂	(%)	95.0 to 97.0

Further information

Technical helpline

Tel: 0845 812 6232
info@lafargecement.co.uk

Customer services

Tel: 0845 812 6300
customerservice@lafargecement.co.uk

LAFARGE CEMENT UK
Portland House
Bickenhill Lane
Solihull, Birmingham
B37 7BQ
Tel. 0845 812 6400
Fax 0845 812 6200
www.lafargecement.co.uk

