

Cornish Lime Company



GENERAL GUIDELINES

Pure and Natural Hydraulic Lime (NHL 2) Product Data

St Astier Natural Hydraulic Limes (NHL)

Conforms to European Norm EN 459 and BS 459
Strength factor: 2 (Feebly hydraulic)
Residue @ 0.09 mm: 5%
Density (volumetric weight) : typical 500 gr. / litre
Available (free) lime Ca(OH)_2 after slaking: 50-55%
Packing: 25kg. Bags

Contains no additives
Whiteness index: 76
Surface cover (cm^2 per gram): 11000
Expansion : < 1mm
Residue of quick lime after slaking: <1%
Shelf life: 8-12 months kept sealed and dry

MORTARS	Compressive strength - N/mm ²				Elasticity Moduli (Mpa)		
MIX RATIO	EN459*	1 : 2	1:2.5	1 : 3	1 : 2	1 : 2.5	1 : 3
7 DAYS		0.62	0.53	0.47			
28 DAYS	2.00*	1.48	1.36	1.25	9025	9800	9000
6 MONTHS		3.84	3.00	2.88	12600	12030	11800
12 MONTHS		4.00	2.90	2.90	12515	12030	11900
24 MONTHS		4.25	3.00	2.75	13375	12000	11750
Consumption for 1m ³ of mortar (kg. +/- 10%)		280	224	168			

* EN/BS 459 (mortar ratio 1:1 by volume with ISO 679 Sand)

Mixing: can be mixed in cement mixers.

Application by spray gun: possible. Please consult us.

Working temperatures: not below 8°C or above 30°C. Make sure that high suction materials are thoroughly dampened before application. Avoid rapid drying due to high temperatures or strong winds by curing with a light water mist several times a day if necessary. Protect from frost, rain, direct sun and strong wind

See "**Protecting Lime Mortar**".

SUITABLE FOR LATH WORK/INJECTION/GROUTING: see relevant sheets.

Reworking: possible within 24 hours.

(cont...)

The information given in this document is for guidance purposes only and is not intended to be a specification

Cornish Lime Company

Brims Park Old Callywith Road Bodmin Cornwall PL31 2DZ Registered Number: 4391187
Tel: (01208) 79779 Fax: (01208) 73744 Email: sales@cornishlime.co.uk Web: www.cornishlime.co.uk



Cornish Lime Company

(cont...)

Mortar composition

MASONRY/POINTING: 1 VOLUME OF NHL 2 : 2 VOLUMES OF SAND

Choose well graded sands (3mm: 75microns).

See also Applications & Good Working Practices - **Sands for Lime Mortars**

RENDERING:

On earth or friable supports, after preparation and cleaning, dampen with a 1:20 solution of NHL2/water applied in 2 coats.

A. Scratch coat (3 - 4 mm)	3 VOLUMES OF NHL 2	5 VOLUMES OF SAND
----------------------------	--------------------	-------------------

This coat is applied by casting on to a still damp but not over saturated support and is left as cast to provide good keying.

B. Undercoat (15-20 mm)	1 VOLUME OF NHL 2	2 VOLUMES OF SAND
-------------------------	-------------------	-------------------

Can be applied in 2 passes of min. 1cm. Second pass only after first is reasonably dry.

C. Finishing (5mm)	1 VOLUME OF NHL 2	2.5 VOLUMES OF SAND
---------------------	-------------------	---------------------

The dosage / thickness may vary in accordance with the desired finish and the sand used. In smooth floated finishes if very fine sands containing clay are used the binder (NHL) quantity will be reduced.

For further information or advice please contact the Cornish Lime Company – 01208 79779

The information given in this document is for guidance purposes only and is not intended to be a specification

Cornish Lime Company

Brims Park Old Callywith Road Bodmin Cornwall PL31 2DZ Registered Number: 4391187
Tel: (01208) 79779 Fax: (01208) 73744 Email: sales@cornishlime.co.uk Web: www.cornishlime.co.uk

