

Cornish Lime Company



GENERAL GUIDELINES

Pure and Natural Hydraulic Lime (NHL 3.5) Product Data

St Astier Natural Hydraulic Limes (NHL)

Conforms to European Norms EN 459 and BS 459
Strength factor: 3.5 (Moderately hydraulic)
Residue @ 0.09 mm: 6.5%
Density (volumetric weight) : typical 650gr / litre
Available (free) lime after slaking Ca(OH)_2 : 25% +
Packing: 25kg. Bags

Contains no additives.
Whiteness index: 72
Surface cover (cm²pergram): 9000
Expansion : < 1mm
Residue of quick lime after slaking: < 1%
Shelf life: 8-12 months kept sealed and dry

MORTARS MIX RATIO	Compressive strength N/mm ²				Elasticity Moduli (Mpa)		
	EN459*	1 : 2	1 : 2.5	1 : 3	1 : 2	1:2.5	1 :3
7 DAYS		0.75	0.57	0.53			
28 DAYS	3.5*	1.88	1.47	1.34	9010	9000	8070
6 MONTHS		7.1	5.34	3.94	15260	13501	13150
12 MONTHS		7.5	5.90	3.90	15280	13620	13150
24 MONTHS		8.63	6.00	3.97	17480	13785	13670
Consumption for 1m ³ of mortar Kg. +/- 10%		305	244	216			
EN 459/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 5°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. See "[Protecting Lime Mortar](#)".

SUITABLE FOR LATH WORK / LIME CONCRETE/INJECTION/GROUTING See relevant sheets

Reworking: possible within 12 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/ CAPPING/ BEDDING/ ASHLAR

Binder: sand ratio: from 1:1.5 to 1:3 depending on the support/background conditions, the size of the joint and the fineness of the sand. Always use well graded sands (3 - 4mm down to 75 microns).

See also "Applications & Good Working Practices [Sands for Lime Mortars](#)".

RENDERING

A. Scratch coat (3-5mm) 1 VOLUME OF NHL 3.5 : 1.5 VOLUMES OF SAND - Cast on

B. Undercoat (15-20mm) 1 VOLUME OF NHL 3.5 : 2 VOLUMES OF SAND*

C. Finishing (5-10mm) 1 VOLUME OF NHL 3.5 : 2.5 VOLUMES OF SAND

With very fine sands possibly containing clays the binder content may have to be reduced.

*At this dosage the consumption is approx. 0.35kg. of NHL 3.5 per m² for each mm thickness.

Please also refer to "Applications & Good Working Practices - [NHL Renders](#)."

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

