



GENERAL GUIDELINES

Pure and Natural Hydraulic Lime (NHL 5) Product Data

St Astier Natural Hydraulic Limes (NHL)

Conforms to European Norms EN 459 and BS 459
Strength factor: 5 (Eminently hydraulic)
Residue @ 0.09 mm: 7%
Density (volumetric weight) typical: 700 gr. / litre
Available (free) lime Ca(OH)_2 after slaking: 20-22%
Shelf life: 8-12 months kept sealed and dry

Contains no additives.
Whiteness index: 67
Surface cover (cm^2 per gram): 8000
Expansion : < 1mm
Residue of quick lime after slaking: < 1%
Packing: 30kg. Bags

| 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 | | 1.96 | 1.00 | 0.88 | n/a | n/a | n/a |
| 28 DAYS | 5* | 2.20 | 2.00 | 1.5 | 10800 | 1100 | 10000 |
| 6 MONTHS | | 7.31 | 5.91 | 5.31 | 18000 | 17050 | 16900 |
| 12 MONTHS | | 9.28 | 8.84 | 6.50 | 18510 | 17280 | 16150 |
| 24 MONTHS | | 10.81 | 8.81 | 7.8 | 21500 | 18020 | 17430 |
| Consumption for 1m^3 of mortar Kg. +/- 10% | | 350 | 280 | 233 | | | |
| 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 8 hours.

(cont...)

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

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Cornish Lime Company

(cont...)

Mortar composition

MASONRY/POINTING/CAPPING/MASS WALL BEDDING/ FOUNDATION/SEA DEFENCE WALLS/CHIMNEY STACS/NEW BUILD (Masonry)

Depending on the conditions of the support/background, the fineness of the sand and the size of the joints, binder : sand ratio values vary between 1: 1.5 to 1: 2.5

Choose well graded sands (3 or 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 5 : 1.5 VOLUMES OF SAND Cast on recommended

B. Undercoat (15-20mm) 1 VOLUME OF NHL 5 : 2 VOLUMES OF SAND * (1:2.5 max)

*At this dosage the consumption is approx 0.4 kg. of NHL 5 per m2 for each mm of thickness

C. Finishing (5-10mm) USE NHL 3.5 OR NHL 2, see relevant sheets

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

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