

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 (cm² per gram): 11000

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		0.62	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.

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 Guidance, contact your St Astier Distributor.

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