

## Natural Lime NHL 5 (Chaux 100 naturelle Pure) 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)<sub>2</sub> after slaking: 20-22%  
 Shelf life: 8-12 months kept sealed and dry

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

MORTARS MIX RATIO	Compressive strengthN/mm <sup>2</sup>				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 <sup>3</sup> 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

**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 m<sup>2</sup> for each mm of thickness

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

**For further Guidance, contact your St Astier Distributor.**

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