

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)₂ after slaking: 20-22%

Shelf life: 8-12 months kept sealed and dry

Contains no additives.

Whiteness index: 67

Surface cover (cm²per gram): 8000

Expansion : < 1mm

Residue of quick lime after slaking: < 1%

Packing: 30kg. Bags

MORTARS MIX RATIO	Compressive strengthN/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

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 Guidance, contact your St Astier Distributor.

Copyright © 2016 CESA, Chaux et Enduits de St Astier

