

Saint-Astier® NHL 2: The Chalk Lime

Technical Data Sheet

Conforms to European Norm EN 459 and BS 459
 Strength factor: 2 (Feebly hydraulic)
 Residue @ 0.09mm: 5%
 Density (volumetric weight): Approx. 500g/litre
 Free lime Ca(OH)₂ after slaking: >55%
 Packing: 25kg bag

Contains no additives
 Whiteness index: 76
 Surface cover (cm² per gram): 11,000
 Expansion: < 1mm
 Quicklime residue after slaking: <1%
 Shelf life: 1 year from production date if kept sealed and dry

MORTARS	Compressive strength – N/mm ²				Elasticity Moduli (Mpa)			
	MIX RATIO	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	9,025	9,800	9,000
6 MONTHS			3.84	3.00	2.88	12,600	12,030	11,800
12 MONTHS			4.00	2.90	2.90	12,515	12,030	11,900
24 MONTHS			4.25	3.00	2.75	13,375	12,000	11,750
Consumption for 1m ³ of mortar (kg, +/- 10%)			280	224	168			

* EN/BS 459 (mortar ratio 1 : 1 by volume with ISO 679 sand)

Suitable for

- > Masonry, consolidation
- > Plastering, rendering, pointing
- > Hemp plasters
- > Decorative finishes, shelter coats
- > Adobe, cob

Before starting, always try on a small test area.

Mixing

It can be mixed in cement mixers.

Application

Application by spray gun is possible. Please consult the Saint-Astier® Technical Department: technical_support@saint-astier.com

Working temperatures

Not below 8°C or above 30°C. Dampen the substrates the day before and prior to application, allowing the surface water to be reabsorbed. Avoid rapid drying due to high temperatures and/or strong winds by covering and curing with a light water mist as necessary. Protect wet mortars from frost for at least 10 days after application. See Protecting Lime Mortar.

Reworking

Possible within 24 hours.

Mortar composition

1) For masonry and pointing:

NHL 2/sand 1:2

Choose well-graded sands (3 mm: 75 microns). See [Sands for lime mortars](#).

2) For rendering:

On earth or friable supports, after preparation and cleaning, dampen with a 1:20 solution of NHL 2/water applied in 2 coats.

A. Scratch coat (3 – 4mm)	3 VOLUMES OF NHL 2	5 VOLUMES OF SAND
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This coat is applied by casting onto a damp, but not over-saturated, support and is left as cast to provide good keying.

B. Undercoat (15-20mm)	1 VOLUME OF NHL 2	2 VOLUMES OF SAND
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Can be applied in 2 passes of minimum 1 cm. Second pass only after first is reasonably dry.

C. Finishing (5mm)	1 VOLUME OF NHL 2	2.5 VOLUMES OF SAND
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The dosage and thickness may vary according to the sand used and the desired finish. In smooth floated finishes, if very fine sands containing clay are used the binder (NHL) quantity will be reduced.