



SAINT-ASTIER

LIME, LIFELONG EXCELLENCE

Saint-Astier® NHL 5

THE ROMAN LIME



PURE NATURAL HYDRAULIC LIME

THE + BENEFITS

- ◆ HIGH MECHANICAL STRENGTH
- ◆ IDEAL IN EXPOSED AREAS
- ◆ ENABLES MOISTURE EXCHANGE
- ◆ RESISTANT TO SULPHATES AND SALTS

SUITABLE FOR

- > Masonry, consolidation, grouting
- > Plastering, rendering, pointing
- > Lime concrete

PACKAGING

- 25 kg bag
- 40 bags per pallet (1T pallet)

PRODUCT COMPOSITION

100 % pure natural hydraulic lime NHL 5 by Saint-Astier®.

SHELF LIFE & GUARANTEE

One year from production date, if protected in the original packaging and stored in dry conditions. Close open bags as soon as possible. Manufacturer Civil Responsibility.

25
KG

NHL
5

BS-EN
459

stastier.co.uk



RENDERING / PLASTERING

MANUAL APPLICATION	STIPPLE COAT	BASE COAT	TOP COAT (preferably with NHL 3.5)	
	3 to 5 mm	10 to 20 mm	Scratched 7 to 12 mm	Smoothed or floated 5 to 7 mm (manual only)
NEW MASONRY, BRICKS OR STONE BLOCKS				
OLD MASONRY, SOFT SUPPORTS AND/OR PLASTERS				
ESTIMATED CONSUMPTION	2.5 kg/m ² for 3 to 5 mm	3.5 to 5 kg/m ² for 10 mm	1.5 to 2 kg/m ² for 5 mm	
WAITING TIME BETWEEN COATS	2 Days		7 Days	

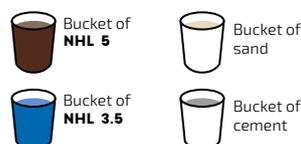
MECHANICAL APPLICATION (Ask Saint-Astier Technical dept)	BASE COAT	TOP COAT (preferably with NHL 3.5)	
	10 to 15 mm	8 to 12 mm (Scraped, brushed)	Trowelled 5 to 7 mm (only manually)
NEW MASONRY, BRICKS OR STONE BLOCKS			
OLD MASONRY SOFT SUPPORTS AND/OR OLD PLASTERS			
ESTIMATED CONSUMPTION	3.5 kg/m ² for 10 mm	At least 7 days per 10 mm applied	
WAITING TIME BETWEEN COATS	At least 7 days per 10 mm applied		

BEDDING, POINTING, TILING & OTHER APPLICATIONS

BEDDING, POINTING, TILING, SLABS	Bedding concrete blocks, hollow or solid bricks, hard stone		LIMECONCRETE	Lime concrete/screed	
	Floors: laying slabs terracotta tiles and flagstones		CHIMNEYS	Fireplace bricks (concrete, clay), solid bricks, stone	
	Pointing: hard to medium natural stone		OLD MASONRY CONSOLIDATION	Injection	
ABOVE THE ROOF LINE*	Roof tiles, roof ridge, roof edges, roof connections	Grouting			

*In the case of low absorbent substrates, it may be necessary to incorporate a SBR into the mortar.

ADDITIONAL INFORMATION



- > For the first coat (base and stipple), the use of rendering machines is possible. If necessary, add an air-entraining agent. For finishing, please contact the Saint-Astier® Technical Department.
- > Smooth finish with a maximum thickness of 5 mm. Do not use a plastic trowel for the finish.
- > Traditional renders tend to have shading after a rain shower. This phenomenon shows that the lime mortar has a moisture-regulating function.
- > Quantity of mixing water depends on the moisture of the sand and the dosage. **Generally 14 litres for a 25kg bag.**
- > Technical documentation for implementation is available at www.stastier.co.uk



PERFORMANCE

ESSENTIAL SPECIFICATION	BS-EN 459 PERFORMANCE STANDARD	SAINT-ASTIER® NHL 5 TYPICAL VALUES
Bulk density	0.5 to 0.8 kg/l	0.7 kg/l
Compressive strength 7 days	≥ 2	4 MPa
Compressive strength 28 days	From 3.5 to 15 MPa	9 MPa
SO ₃	≥ 2	≥ 2
Free lime	≥ 15 %	> 20 %
Stability	≤ 2 mm	≤ 1 mm
Initial setting time	More than 1 hours	2 to 3 hours
Particle size 90µm	≤ 15 %	≤ 7 %
Particle size 200µm	≤ 2 %	≤ 2 %
Whiteness index	No requirements	67
Quicklime residue after slaking	n/a	< 1 %
Surface cover (cm ² per gram)	n/a	8.000

MORTARS	COMPRESSIVE STRENGTH - N/mm ²			ELASTICITY MODULI (MPa)			
Mix ratio	BS-EN 459*	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	1.5	10,800	1,100	10,000
6 months		7.31	5.91	5.31	18,000	17,050	16,150
12 months		9.28	8.84	6.50	18,510	17,280	16,150
24 months		10.81	8.81	7.8	21,500	18,020	17,430

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

APPLICATION

Application with spray gun possible.

WORKING TEMPERATURE

Not below 8°C or above 30°C. Dampen the substrates the day before and prior to application, allow 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.

REWORKING

Possible within 8 hours.

HEALTH AND SAFETY

Follow the instructions on the safety data sheet and wear the appropriate equipment (gloves, mask, safety shoes....).

FURTHER INFORMATION

Available on our website stastier.co.uk