



SAINT-ASTIER

LIME, LIFELONG EXCELLENCE

Saint-Astier® NHL 3.5

THE VERSATILE LIME



PURE NATURAL HYDRAULIC LIME

THE + BENEFITS

- ◆ RESPECTS COLOUR OF LOCAL SANDS
- ◆ VERSATILE
- ◆ RESISTANT TO SULPHATES AND SALTS
- ◆ COMPATIBLE WITH PLASTER SUBSTRATES

SUITABLE FOR

- > Masonry, consolidation, grouting
- > Plastering, rendering, pointing
- > Decoration

PACKAGING

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

PRODUCT COMPOSITION

100% pure Natural Hydraulic Lime NHL 3.5 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
3.5

BS-EN
459

stastier.co.uk



RENDERING / PLASTERING

MANUAL APPLICATION	STIPPLE COAT	BASE COAT	TOP COAT	
	3 to 5 mm	10 to 20 mm	Scratched 7 to 12 mm	Smooth or floated 5 to 7 mm
OLD MASONRY AND/OR COARSE PLASTER				
NEW MASONRY, BRICKS OR STONE BLOCKS				
ESTIMATED CONSUMPTION	2.5 kg/m ² for 3 to 5 mm	3.5 to 5 kg/m ² for 10 mm		
WAITING TIME BETWEEN COATS	2 Days		7 Days	

MECHANICAL APPLICATION	BASE COAT	TOP COAT	
	10 to 15 mm	Scratched 8 to 12 mm	Smooth or floated 5 to 7 mm (manual only)
OLD MASONRY AND/OR COARSE PLASTER			
NEW MASONRY, BRICKS OR STONE BLOCKS			
ESTIMATED CONSUMPTION	3.5 kg/m ² for 10 mm	3 to 4 kg/m ² for 10 mm	3 to 4 kg/m ² for 10 mm
WAITING TIME BETWEEN COATS	At least 7 days		

BEDDING, POINTING, TILING & OTHER APPLICATIONS

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

*In the case of low absorbent substrates, it may be necessary to incorporate an adhesion agent into the mortar.



ADDITIONAL INFORMATION

> For the base and stipple coats, 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 show shading after a rain shower. This phenomenon shows that the lime mortar has a moisture-regulating function.

> Amount of mixing water: Depends on the moisture of the sand and the dosage. **Generally, 15 litres per 25kg bag.** Technical documentation for implementation is available at www.stastier.co.uk



PERFORMANCE

ESSENTIAL SPECIFICATION	BS-EN 459 PERFORMANCE STANDARD	SAINT-ASTIER® NHL 3.5 TYPICAL VALUES
Bulk density	0.45 to 0.75 kg/l	0.65 kg/l
Compressive strength 7 days	-	3 MPa
Compressive strength 28 days	from 3.5 to 15 MPa	7 MPa
SO ₃	≤ 2%	≤ 2%
Free lime	≥ 25%	> 28%
Stability	≤ 2 mm	≤ 2 mm
Initial setting time	More than 1 hour	5 to 6 hours
Particle size 90µm	≤ 15%	≤ 15%
Particle size 200µm	≤ 2%	≤ 2%
Whiteness index	No requirements	72
Quicklime residue after slaking	n/a	< 1%
Surface cover (cm ² per gram)	n/a	9,000

MORTARS	COMPRESSIVE STRENGTH - N/mm ²				ELASTICITY MODULI (MPa)		
	BS-EN 459*	1:2	1:2.5	1:3	1:2	1:2.5	1:3
Mix ratio	BS-EN 459*	1:2	1:2.5	1:3	1:2	1:2.5	1:3
7 days		0.75	0.57	0.53	n/a	n/a	n/a
28 days	3.5	1.88	1.47	1.34	9,010	9,000	8,070
6 months		7.1	5.34	3.94	15,260	13,501	13,150
12 months		7.5	5.90	3.90	15,280	13,620	13,150
24 months		8.63	6.00	3.97	17,480	13,785	13,670

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

APPLICATION

Application with spray gun possible. Do not hesitate to contact our Technical Support.

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 12 hours.

HEALTH & 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