



# SAINT-ASTIER

LIME, LIFELONG EXCELLENCE

## Saint-Astier® NHL 2

THE CHALK LIME



PURE NATURAL HYDRAULIC LIME

## THE + BENEFITS

- ◆ IDEAL FOR SOFT SUBSTRATES
- ◆ ALLOWS VERY FINE FINISHES
- ◆ ADAPTED FOR TRADITIONAL MASONRY
- ◆ RESISTANT TO SULPHATES AND SALTS

### SUITABLE FOR

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

### PACKAGING

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

### PRODUCT COMPOSITION

100% pure Natural Hydraulic Lime NHL 2 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  
2

BS-EN  
459

[stastier.co.uk](http://stastier.co.uk)



## RENDERING / PLASTERING

	PREPARATION OF THE SUPPORT	STIPPLE COAT	BASE COAT	TOP COAT	
		3 to 5 mm	10 to 20 mm	Scratched 5 to 7 mm	Smooth or floated 5 mm max
<b>CLAY, STRAW-CLAY, RAMMED CLAY, ADOBE, CLAY CONSTRUCTION</b>	Moisten with lime water 				
<b>LIGHTWEIGHT BLOCKS</b>					
<b>ESTIMATED CONSUMPTION</b>		1.7 kg/m <sup>2</sup> for 5 mm	3 kg/m <sup>2</sup> for 10 mm	1.5 kg/m <sup>2</sup> for 5 to 7 mm	1 kg/m <sup>2</sup> for 5 mm
<b>WAITING TIME BETWEEN COATS</b>		At least 2 Days		At least 15 Days	
<b>MASONRY MADE OF SOFT STONE (CHALK, TUFF...) AND/OR WITH COARSE PLASTER</b>					
<b>ESTIMATED CONSUMPTION</b>		2.5 kg/m <sup>2</sup> for 5 mm	3.5 kg/m <sup>2</sup> for 10 mm	1.5 kg/m <sup>2</sup> for 5 to 7 mm	1 kg/m <sup>2</sup> for 5 mm
<b>WAITING TIME BETWEEN COATS</b>	Fresh on fresh	At least 4 Days		At least 7 days	

## BEDDING, POINTING, TILING & OTHER APPLICATIONS

<b>SOFT MASONRY AND POINTING</b>	<i>Hollow, solid and/or traditional bricks</i>	
	<i>Pointing: medium to soft natural stone, brick</i>	
<b>CONSOLIDATION OF THE OLD MASONRY</b>	<i>Injection</i>	
	<i>Grouting</i>	



## ADDITIONAL INFORMATION

- > Smooth finish with a maximum thickness of 5 mm (only from Saint-Astier® NHL 2). Do not use plastic trowels 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.
- > Quantity of mixing water depends on the moisture of the sand and the dosage. **Generally 15 litres per 25 kg bag.**
- > Technical documentation for the implementation is available at: [www.stastier.co.uk](http://www.stastier.co.uk)





## PERFORMANCE

ESSENTIAL SPECIFICATION	BS-EN 459 PERFORMANCE STANDARD	SAINT-ASTIER® NHL 2 TYPICAL VALUES
Bulk density	0.4 to 0.7 kg/l	0.5 kg/l
Compressive strength 28 days	From 2 to 7 MPa	3.5 MPa
SO <sub>3</sub>	≤ 2 %	≤ 2 %
Free lime	≥ 35 %	> 55 %
Stability	≤ 2 mm	≤ 2 mm
Initial setting time	More than 1 hours	5 to 6 hours
Particle size 90µm	≤ 15 %	≤ 15 %
Particle size 200µm	≤ 2 %	≤ 2 %
Whiteness index	No requirements	76
Quicklime residue after slaking	n/a	< 1 %
Surface cover (cm <sup>2</sup> per gram)	n/a	11.000
Expansion	n/a	< 1 mm

MORTARS	COMPRESSIVE STRENGTH - N/mm <sup>2</sup>			ELASTICITY MODULI (MPa)			
Mix ratio	BS-EN 459*	1 : 2	1 : 2.5	1 : 3	1 : 2	1 : 2.5	1 : 3
7 days		0.62	0.53	0.47	n/a	n/a	n/a
28 days	2	1.48	1.36	1.25	9.025	9.800	9.000
6 months		3.84	3.00	2.88	12.600	12.030	11.900
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

\*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 24 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](http://stastier.co.uk)