TECHNICAL DATA SHEET



Saint-Astier® NHL 3.5

THE VERSATILE 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.

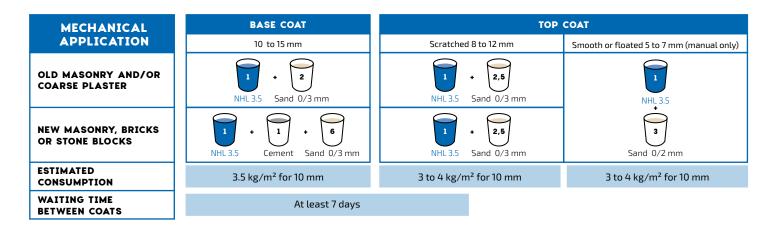


Saint-Astier[®] NHL 3.5



MANUAL	STIPPLE COAT	BASE COAT	τορ ςοατ				
APPLICATION	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	1 + 2 NHL 3.5 Sand 0/3 mm	1 + 2,5 NHL 3.5 Sand 0/3 mm					
NEW MASONRY, BRICKS OR STONE BLOCKS	1 + 2 NHL 3.5 Sand 0/3 mm	1 + 2,5 NHL 3.5 Sand 0/3 mm	1 • 3 NHL 3.5 Sand 0/2 mm	NHL 3.5 Sand 0/1 mm			
ESTIMATED CONSUMPTION	2.5 kg/m ² for 3 to 5 mm	3.5 to 5 kg/m² for 10 mm					
WAITING TIME BETWEEN COATS	2 Days		7 Days				

RENDERING / PLASTERING



BEDDING, POINTING, TILING & OTHER APPLICATIONS

BEDDING, POINTING, TILING, SLABS	Bedding concrete blocks, hollow or solid bricks, hard stone	NHL 3.5 Cement Sand	LIMECONCRETE	Floors in old buildings	s I Ballast NHL 3.5	
	Floors: laying slabs terracotta tiles and flagstones	0/3 mm	CHIMNEYS	Fireplace bricks (concrete, clay), solid bricks, stone	1 NHL 3.5	
	Pointing: medium to soft natural stone, brick	1 + 2,5 Sand 0/3 mm	OLD MASONRY	Injection	NHL 3.5	
ABOVE THE ROOF LINE*	Roof tiles, ridge, roof edges, roof connections	1 + 2 Sand 0/3 mm	CONSOLIDATION	Grouting	I I I NHL 3.5 Sand 0/2 Water	

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



sand

Bucket of cement

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



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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		
50 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 (cm² per gram)	n/a	9,000		

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		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

