SAINT-ASTIER
LA CHAUX, L'EXCELLENCE POUR LA VIE

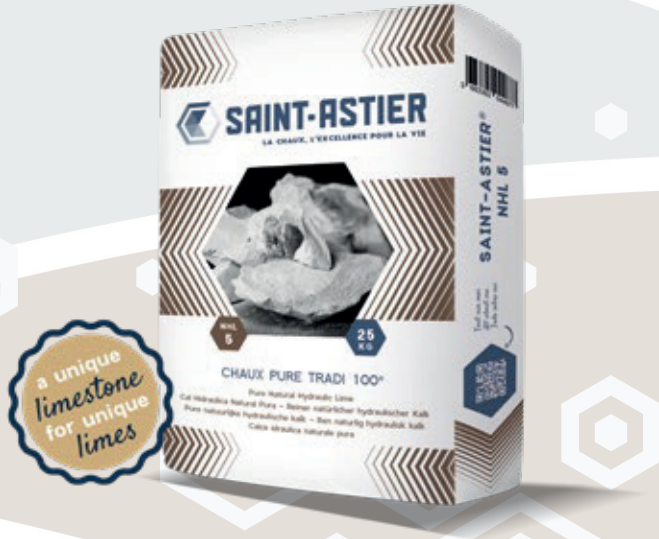
Tŷ-Mawr
Caring for the future, respecting the past...

Manufacturer and supplier of traditional and environmentally-friendly building materials.

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

Sales & Distribution - Tŷ-Mawr Lime Ltd, Unit 12, Brecon Enterprise Park, Brecon, Powys. LD3 8BT. - **Tel** : 01874 611 350
Manufacturing & Courses - Tŷ-Mawr Lime Ltd, Ty-Mawr, Llangasty, Brecon, Powys, LD3 7PJ. - **Email**: tymawr@lime.org.uk

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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	1 NHL 5 + 2 Sand 0/3 mm	1 NHL 5 + 2,5 Sand 0/3 mm	1 NHL 3.5 OR 1 NHL 5 + 3 Sand 0/2 mm	1 NHL 3.5 OR 1 NHL 5 + 3 Sand 0/1 mm
OLD MASONRY, SOFT SUPPORTS AND/OR PLASTERS	1 NHL 5 + 2,5 Sand 0/3 mm	1 NHL 5 + 2,5 Sand 0/3 mm		
ESTIMATED CONSUMPTION	2.5 kg/m² for 3 to 5 mm	3.5 to 5 kg/m² for 10 mm	1.5 to 2 kg/m² 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	1 NHL 5 + 1/4 Cement + 4 Sand 0/3 mm	1 NHL 3.5 OR 1 NHL 5 + 3 Sand 0/3 mm	1 NHL 3.5 OR 1 NHL 5 + 3 Sand 0/2 mm
OLD MASONRY SOFT SUPPORTS AND/OR OLD PLASTERS	1 NHL 5 + 2 Sand 0/3 mm	1 NHL 3.5 OR 1 NHL 5 + 2,5 Sand 0/3 mm	
ESTIMATED CONSUMPTION	3.5 kg/m² for 10 mm		
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*	1 NHL 5 + 1/4 Cement + 3 Sand 0/4 mm	LIMECONCRETE	*Lime concrete/screed*	1 NHL 5 + 2 Ballast sand 0/15
	Floors: laying slabs terracotta tiles and flagstones	1 NHL 5 + 2 Sand 0/4 mm	CHIMNEYS	*Fireplace bricks (concrete, clay), solid bricks, stone*	1 NHL 5 + 2 Sand 0/4 mm
	Pointing: hard to medium natural stone	1 NHL 5 + 2,5 Sand 0/3 mm	OLD MASONRY CONSOLIDATION	*Injection*	1 NHL 5 + 1 Water
ABOVE THE ROOF LINE*	*Roof tiles, roof ridge, roof edges, roof connections*	1 NHL 5 + 2 Sand 0/3 mm		*Grouting*	1 NHL 5 + 1 Sand 0/2 mm

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

ADDITIONAL INFORMATION

Bucket of **NHL 5**
Bucket of sand
Bucket of **NHL 3.5**
Bucket of cement

> 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

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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

Jan 2024

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