



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 (55lb)
35 or 40 bags (875kg/1T)

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.

55
LB

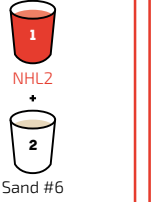
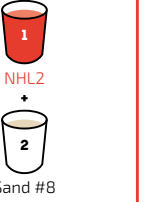
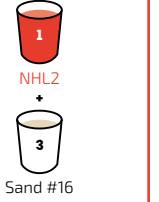
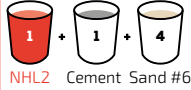
NHL
2

EN
459

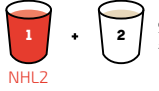
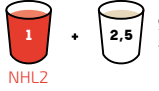
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RENDERING / PLASTERING

	PREPARATION OF THE SUPPORT	STIPPLE COAT	BASE COAT	TOP COAT	
		1/8" to 3/16"	3/8" to 3/4"	Scratched 1/4" to 1/2"	Smooth (floated 1/4" max)
CLAY, STRAW-CLAY, RAMMED CLAY, ADOBE, CLAY CONSTRUCTION	Moisten with lime water 				
LIGHTWEIGHT BLOCKS (COMPRESSIVE STRENGTH OVER 0,6 MPA)					
ESTIMATED CONSUMPTION		130 ft² per bag with 1/4" thickness	65 ft² per bag with 1/4" thickness	100 ft² per bag with 1/2" thickness	180 ft² per bag with 1/4" thickness
WAITING TIME BETWEEN COATS		At least 2 Days		At least 15 Days	
MASONRY MADE OF SOFT STONE (CHALK, TUFF...) AND/OR WITH COARSE PLASTER					
ESTIMATED CONSUMPTION		130 ft² per bag with 1/4" thickness	80 ft² per bag with 1/4" thickness	130 ft² per bag with 1/4" thickness	180 ft² per bag with 1/4" thickness
WAITING TIME BETWEEN COATS	Wet on wet	At least 4 Days		At least 7 days	

BEDDING, POINTING, TILING & OTHER APPLICATIONS

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

ADDITIONAL INFORMATION

- > Smooth finish with a maximum thickness of 1/4" (6mm) (only from Saint-Astier® NHL 2). Do not use plastic trowels for this 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. (3.9 gallons per 55 lb bag)**
- > Technical documentation for the implementation is available at : www.limes.us



PERFORMANCE

ESSENTIAL SPECIFICATION	NF-EN 459 PERFORMANCE STANDARD	SAINT-ASTIER® NHL 2 TYPICAL VALUES
Bulk density	0.4 to 0.7 kg/l (24.97 to 43.69 lb/ft³)	0.5 kg/l (31.2 lb/ft³)
Compressive strength 28 days	From 2 to 7 MPa (≈290 to 1015 psi)	3.5 MPa (≈507 psi)
SO ₃	≤ 2 %	≤ 2 %
Free lime	≥ 35 %	> 55 %
Stability	≤ 2 mm (5/64")	≤ 2 mm (5/64")
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 (cm² per gram)	n/a	11,000
Expansion	n/a	< 1 mm (3/64")

MORTARS	COMPRESSIVE STRENGTH – MPa (PSI**)				ELASTICITY MODULI MPa (MPSI**)		
Mix ratio	NF-EN 459*	1 : 2	1 : 2.5	1 : 3	1 : 2	1 : 2.5	1 : 3
7 days		0.62 (89)	0.53 (76)	0.47 (68)	n/a	n/a	n/a
28 days	2	1.48 (214)	1.36 (197)	1.25 (181)	9.020 (1.31)	9.800 (1.42)	9.000 (1.31)
6 months		3.84 (555)	3.00 (435)	2.88 (417)	12.600 (1.83)	12.030 (1.74)	11.900 (1.73)
12 months		4.00 (580)	2.90 (420)	2.90 (420)	12.515 (1.82)	12.030 (1.74)	11.900 (1.72)
24 months		4.25 (616)	3.00 (435)	2.75 (398)	13.375 (1.94)	12.000 (1.74)	11.750 (1.70)

*NF-EN 459 (mortar ratio 1 : 1 by volume with ISO 679 sand) **values rounded in imperial system

APPLICATION

Application with spray gun possible. Do not hesitate to contact our Technical Support : contact@saint-astier.com

WORKING TEMPERATURE

Not below 8°C (47°F) or above 30°C (86°F). 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 www.limes.us