

# SAINT-ASTIER

# Saint-Astier® NHL 5

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

#### 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.







# Saint-Astier® NHL 5

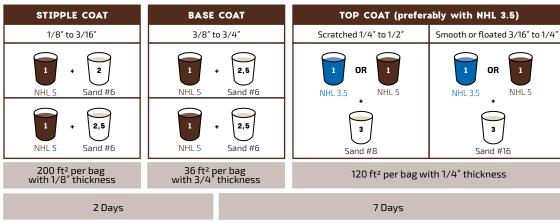


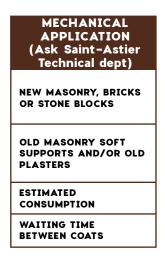


#### RENDERING / PLASTERING



**BETWEEN COATS** 









At least 7 days per 1/2" applied

#### BEDDING, POINTING, TILING & OTHER APPLICATIONS

BEDDING, POINTING, TILING, SLABS	Bedding concrete blocks, hollow or solid bricks, hard stone	NHL 5 Cement Sand #5	LIMECONCRETE	Lime concrete/screed	coarse sand 0/16 mm 3/4 inch
	Floors: laying slabs terracotta tiles and flagstones	+ 2 Sand #5	CHIMNEYS	Fireplace bricks (concrete, clay), solid bricks, stone	1
	Pointing: hard to medium natural stone	1 + 2,5 Sand #6	OLD MASONRY	Injection	NHL 5 Water
ABOVE THE ROOF LINE*	Roof tiles, roof ridge, roof edges, roof connections	1 + 2 Sand #6	CONSOLIDATION	Grouting	1 + 1 NHL 5 Sand #8

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

#### **ADDITIONAL INFORMATION**



Bucket of

NHL 3.5





- Bucket of
- > 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 this 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 (3.7 gallons) for a 25kg bag (55 lb).
- > Technical documentation for implementation is available at www.limes.us



### Saint-Astier® NHL 5





#### **PERFORMANCE**

ESSENTIAL SPECIFICATION	NF-EN 459 PERFORMANCE STANDARD	SAINT-ASTIER® NHL 5 TYPICAL VALUES		
Bulk density	0.5 to 0.8 kg/l (31.2 to 49.94 lb/ft³)	0.7 kg/l (43.7 lb/ft³)		
Compressive strength 7 days	≥ 2 (290 PSI)	4 MPa (580.1 PSI)		
Compressive strength 28 days	From 3.5 to 15 MPa (725 to 2.175 PSI)	9 MPa (1.305.3 PSI)		
SO <sub>3</sub>	≥ 2	≥ 2		
Free lime	≥ 15 %	> 20 %		
Stability	≤ 2 mm (5/64")	≤ 1 mm (3/64")		
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 (cm² per gram)	n/a	8.000		

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		1.96 (284)	1.00 (145)	0.88 (128)	n/a	n/a	n/a	
28 days	5(725)	2.20 (319)	2 (290)	1.5 (217)	10.800 (1.57)	11.000 (1.59)	10.000 (1.45)	
6 months		7.31 (1060)	5.91 (857)	5.31 (770)	18.000 (2.61)	17.050 (2.47)	16.150 (2.45)	
12 months		9.28 (1346)	8.84 (1282)	6.50 (942)	18,510 (2.68)	17.280 (2.50)	16.150 (2.34)	
24 months		10.81 (1567)	8.81 (1277)	7.8 (1131)	21,500 (3.12)	18.020 (2.61)	17.430 (2.53)	
*NF-FN 459 (mortar ratio 1 : 1 by volume with ISO 679 sand) **values rounded in imperial system								

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#### **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 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 www.limes.us



