

# Saint-Astier® NHL 3.5: The Versatile Lime

## Technical Data Sheet

Conforms to European Norms EN 459 and BS 459  
 Strength factor: 3.5 (Moderately hydraulic)  
 Residue @ 0.09mm: 6.5%  
 Bulk density: Approx. 650g/litre  
 Free lime after slaking Ca(OH)<sub>2</sub>: >28%  
 Packing: 25kg bag

Contains no additives.  
 Whiteness index: 72  
 Surface cover (cm<sup>2</sup> per gram): 9,000  
 Expansion : <1mm  
 Quicklime residue after slaking: <1%  
 Shelf life: 1 year from production date if kept sealed and dry

MORTARS	Compressive strength - N/mm <sup>2</sup>			Elasticity Moduli (Mpa)			
	EN459*	1 : 2	1 : 2.5	1 : 3	1 : 2	1 : 2.5	1 : 3
MIX RATIO	EN459*	1 : 2	1 : 2.5	1 : 3	1 : 2	1 : 2.5	1 : 3
7 DAYS		0.75	0.57	0.53			
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
Consumption for 1m <sup>3</sup> of mortar (kg +/- 10%)		305	244	216			
EN 459/BS 459 (mortar ratio 1 : 1 by volume, with ISO 679 sand)							

### Suitable for:

- > Masonry, consolidation, grouting
- > Plastering, rendering, pointing
- > Decoration, finishing

Before starting, always try on a small test area.

### Mixing

Can be mixed in cement mixers.

### Application

Application by spray gun is possible. Please consult the Saint-Astier® Technical Department: [technical\\_support@saint-astier.com](mailto:technical_support@saint-astier.com)

### Working temperatures

Not below 8°C or above 30°C. Dampen the substrates the day before and prior to application, allowing 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. See [Protecting Lime Mortar](#).

### Reworking

Possible within 12 hours.

### Mortar composition

1) For masonry, pointing, capping, bedding, ashlar:

NHL 3.5/sand ratio > from 1:1.5 to 1:3 depending on the background conditions, the size of the joint and the fineness of the sand. Always use well graded sands (3-4mm down to 75 microns). See [Sands for Lime Mortars](#).

2) For rendering:

A. Scratch coat (3-5mm) > NHL 3.5/sand 1:1.5 (cast on recommended)

B. Undercoat (15-20mm) > NHL 3.5/sand 1:2\*

\*At this dosage the consumption is approx. 0.35kg of NHL 3.5 per m<sup>2</sup> for each mm of thickness.

C. Finishing (5-10mm) > NHL 3.5/sand 1:2.5 (with very fine sands possibly containing clays the binder content may need to be reduced)

See [NHL Renders](#).