



## 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
- 40 bags per pallet (1T pallet)

### 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.

25  
KG

NHL  
2

BS-EN  
459

[stastier.co.uk](http://stastier.co.uk)




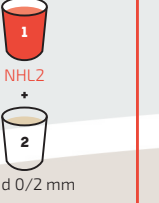
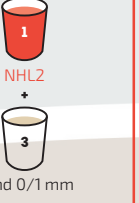
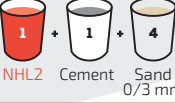






Manufacturer and supplier of traditional and environmentally-friendly building materials.





## Saint-Astier® NHL 2



### RENDERING / PLASTERING

|   | PREPARATION OF THE SUPPORT  | STIPPLE COAT   | BASE COAT   | TOP COAT   |  |
|---|---|--|---|--|--|
|   | Moisten with lime water   | 3 to 5 mm  | 10 to 20 mm   | Scratched 5 to 7 mm  | Smooth or floated 5 mm max   |
| <b>CLAY, STRAW-CLAY, RAMMED CLAY, ADOBE, CLAY CONSTRUCTION</b>                |  |   |   |   |   |
| <b>LIGHTWEIGHT BLOCKS</b>   |   |   |   |  |  |
| <b>ESTIMATED CONSUMPTION</b>  |   | 1.7 kg/m <sup>2</sup> for 5 mm   | 3 kg/m <sup>2</sup> for 10 mm   | 1.5 kg/m <sup>2</sup> for 5 to 7 mm  | 1 kg/m <sup>2</sup> for 5 mm   |
| <b>WAITING TIME BETWEEN COATS</b>   |   | At least 2 Days  |   | At least 15 Days   |  |
| <b>MASONRY MADE OF SOFT STONE (CHALK, TUFF...) AND/OR WITH COARSE PLASTER</b> |   |  |  |  |  |
| <b>ESTIMATED CONSUMPTION</b>  |   | 2.5 kg/m <sup>2</sup> for 5 mm   | 3.5 kg/m <sup>2</sup> for 10 mm   | 1.5 kg/m <sup>2</sup> for 5 to 7 mm  | 1 kg/m <sup>2</sup> for 5 mm   |
| <b>WAITING TIME BETWEEN COATS</b>   | Fresh on fresh  | At least 4 Days  |   | At least 7 days  |  |

### BEDDING, POINTING, TILING & OTHER APPLICATIONS

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



### ADDITIONAL INFORMATION

- > Smooth finish with a maximum thickness of 5 mm (only from Saint-Astier® NHL 2). Do not use plastic trowels 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.
- > Quantity of mixing water depends on the moisture of the sand and the dosage. **Generally 15 litres per 25 kg bag.**
- > Technical documentation for the implementation is available at: [www.stastier.co.uk](http://www.stastier.co.uk)





## Saint-Astier® NHL 2



### PERFORMANCE

| ESSENTIAL SPECIFICATION                  | BS-EN 459<br>PERFORMANCE STANDARD | SAINT-ASTIER® NHL 2<br>TYPICAL VALUES |
|--|-----------------------------------|---------------------------------------|
| Bulk density                             | 0.4 to 0.7 kg/l                   | 0.5 kg/l                              |
| Compressive strength 28 days             | From 2 to 7 MPa                   | 3.5 MPa                               |
| SO <sub>3</sub>                          | ≤ 2 %                             | ≤ 2 %                                 |
| Free lime                                | ≥ 35 %                            | > 55 %                                |
| Stability                                | ≤ 2 mm                            | ≤ 2 mm                                |
| 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 (cm <sup>2</sup> per gram) | n/a                               | 11.000                                |
| Expansion                                | n/a                               | < 1 mm                                |

| MORTARS   | COMPRESSIVE STRENGTH - N/mm <sup>2</sup> |       |         |       | ELASTICITY MODULI (MPa) |         |        |
|-----------|--|-------|---------|-------|-------------------------|---------|--------|
|           | BS-EN 459*                               | 1 : 2 | 1 : 2.5 | 1 : 3 | 1 : 2                   | 1 : 2.5 | 1 : 3  |
| Mix ratio | BS-EN 459*                               | 1 : 2 | 1 : 2.5 | 1 : 3 | 1 : 2                   | 1 : 2.5 | 1 : 3  |
| 7 days    |  | 0.62  | 0.53    | 0.47  | n/a                     | n/a     | n/a    |
| 28 days   | 2  | 1.48  | 1.36    | 1.25  | 9.025                   | 9.800   | 9.000  |
| 6 months  |  | 3.84  | 3.00    | 2.88  | 12.600                  | 12.030  | 11.900 |
| 12 months |  | 4.00  | 2.90    | 2.90  | 12.515                  | 12.030  | 11.900 |
| 24 months |  | 4.25  | 3.00    | 2.75  | 13.375                  | 12.000  | 11.750 |

\*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 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 [stastier.co.uk](http://stastier.co.uk)