

# NHL 3.5

## Main Data and Application Recommendations

**Product Specification:** Pure and Natural Hydraulic Lime (NHL). Contains no additives.

**Conforms to European Norms (EN 459)**

Strength Factor: 3.5 (moderately hydraulic)

Residue @ 0.09 mm: 6.5%

Whiteness Index: 72

Available (free) lime after slaking  $\text{Ca(OH)}_2$  20-25%

**Packing:** 55 lbs (25 kg) bags

Density (volumetric weight) 40.6 lbs/ft<sup>3</sup> 650 gr/litre

Surface Cover: 274 sqft<sup>2</sup>/oz (cm<sup>2</sup> per gram: 9000)

Expansion: <3/64" (1mm)

Residue of quick lime after slaking: <1%

**Shelf Life:** 8-12 months kept sealed and dry

Mixing Ratio	MORTARS Compressive Strength - PSI (N/mm <sup>2</sup> )				Elasticity Moduli 10 <sup>3</sup> psi (Mpa)		
	EN459	1 : 2	1 : 2.5	1 : 3	1 : 2	1 : 2.5	1 : 3
7 Days		109 (0.75)	83 (0.57)	77 (0.53)			
28 Days	740 (5.1)	273 (1.88)	213 (1.47)	194 (1.34)	1306 (9010)	1305 (9000)	1170 (8070)
6 Months		1029 (7.1)	774 (5.34)	571 (3.94)	2213 (15260)	1958 (13501)	1805 (12450)
12 Months		1087 (7.5)	855 (5.90)	565 (3.90)	2216 (15280)	1975 (13620)	1907 (13150)
24 Months		1251 (8.63)	870 (6.00)	576 (3.97)	2535 (17480)	1999 (13785)	1982 (13670)
Consumption for 1 yard <sup>3</sup> (1m <sup>3</sup> ) of mortar							
lbs +/-10% (kg +/- 10%)		514 (305)	411 (244)	364 (216)			

**Mixing:** Can be mixed in cement mixers.

**Application by Spray Gun:** possible

**Working Temperatures:** not below 40°F or above 85°F. Make sure that high suction materials are thoroughly dampened before application. Avoid rapid drying due to high temperatures or strong winds by curing with a light water mist several times a day if necessary. Protect from frost, rain, direct sun and strong wind for a minimum of 72 hours.

**SUITABLE FOR LATH WORK / LIME CONCRETE / INJECTION / GROUTING:** see relevant sheets

**Reworking:** possible within 12 hours

### MORTAR USES: MASONRY/POINTING/ CAPPING/ BEDDING/ ASHLAR

Binder: sand ratio: from 1:1.5 to 1:3 depending on the support/background conditions, the size of the joint and the fineness of the sand. Always use well graded sands (#6 (3 -4mm) down to #200 (75 microns)). See also "General Guidelines – Sand for NHL mortars"

### PLASTERING

- |                 |                        |  |
|-----------------|------------------------|--|
| A. Scratch Coat | 1/8"-3/16" (3-5 mm)    | 1 volume of NHL 3.5 : 1.5 volumes sand - Cast on |
| B. Brown Coat   | 5/8" - 3/4" (15-20 mm) | 1 volume of NHL 3.5 : 2 volumes sand*            |
| C. Finish Coat  | 3/16" - 3/8" (5-10 mm) | 1 volume of NHL 3.5 : 2.5 volumes sand           |

With very fine sands possibly containing clays, the binder content may have to be reduced.

\*At this ratio the consumption is approximately 2.05 lbs (0.35 kg) of NHL 3.5 per square yard (m<sup>2</sup> for each 1/8" (m) thickness

*Please also refer to General Guidelines: NHL Plasters*

The above details are given for information purposes only. Final dosages and application should be checked with our technicians. The Factory reserves the right to alter specifications.