

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) and French Norm NFP 15.311

Strength factor: 3.5 (Moderately hydraulic) Density (volumetric weight) : typical 40.6 lbs / ft³ (650gr / litre)
 Residue @ 0.09 mm: 6.5% Surface cover: 274 sqft/oz (cm² per gram: 9000)
 Whiteness index: 72 Expansion : < 3/64" (1mm)
 Available (free) lime after slaking Ca(OH)₂ : 20%- 25% Residue of quick lime after slaking: < 1%
Packing: 55 lbs. (25kg) Bags **Shelf Life:** 8-12 months kept sealed and dry

MORTARS MIX RATIO	Compressive strength - PSI(N/mm2) EN459*	Elasticity Moduli 10 ³ psi (Mpa)		
		1 : 2	1:2.5	1 : 3
7 DAYS		109(0.75)	83 (0.57)	77 (0.53)
28 DAYS	507(3.5*)	273(1.88)	213(1.47)	194(1.34)
6 MONTHS		1029(7.1)	774(5.34)	571(3.94)
12 MONTHS		1087(7.5)	855(5.90)	565(3.90)
24 MONTHS		1251(8.63)	870(6.00)	576(3.97)
Consumption for 1 yard ³ (1m ³)- of mortar				
lbs +/-10% (kg. +/- 10%)		514(305)	411(244)	364(216)

* Incoming European Norm EN 459 (mortar ratio 1:1.3 with ISO 679 Sand)

Mixing: can be mixed in cement mixers.

Application by Spray Gun: possible.

Working temperatures: not below 40⁰F or above 85⁰F. 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" (3-5mm) 1 volume of NHL 3.5 : 1.5 volumes of Sand – Cast on.
- B. Brown Coat 5/8" – 3/4" (15-20mm) 1 volume of NHL 3.5 : 2 volumes of Sand*
- C. Finish Coat 3/16" – 3/8" (5-10mm) 1 volume of NHL 3.5 : 2.5 volumes of Sand

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

*At this dosage the consumption is approx. 2.05 lbs. (0.35kg). of NHL 3.5 per square yard (m²) 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.