

NHL 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: 5 (Eminently hydraulic)

Residue @ 0.09 mm: 7%

Whiteness Index: 67

Available (free) lime after slaking Ca(OH)_2 15-20%

Packing: 66 lbs (30 kg) bags

Density (volumeric weight) 43.7 lbs/ft³ 700 gr/litre

Surface Cover: 244 sqft²/oz (cm² per gram: 8000)

Expansion: <3/64" (1mm)

Residue of quick lime after slaking: <1%

Shelf Life: 8-12 months kept sealed and dry

MORTARS Compressive Strength - PSI (N/mm ²)					Elasticity Moduli 10 ³ psi (Mpa)		
Mixing Ratio	EN459	1 : 2	1 : 2.5	1 : 3	1 : 2	1 : 2.5	1 : 3
7 Days		284 (1.96)	245 (1.00)	128 (0.88)			
28 Days	1040 (7.2)	319 (2.20)	290 (2.00)	217 (1.50)	1566 (10800)	1595 (11000)	1450 (10000)
6 Months		1060 (7.31)	857 (5.91)	770 (5.31)	2610 (18000)	2472 (17050)	2450 (16900)
12 Months		1346 (9.28)	1282 (8.84)	942 (6.50)	2684 (18510)	2506 (17280)	2342 (16150)
24 Months		1567 (10.81)	1277 (8.81)	1131 (7.80)	3117 (21500)	2613 (18020)	2527 (17430)
Consumption for 1 yard ³ (1m ³) of mortar							
lbs +/-10% (kg +/- 10%)		590 (350)	472 (280)	393 (233)			

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 48 hours.

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

Reworking: possible within 8 hours

MORTAR USES: MASONRY/POINTING/ CAPPING/ MASS WALL BEDDING/ FOUNDATION/SEA DEFENCE WALLS/CHIMNEY STACKS/NEW BUILD (Masonry)

Depending on the conditions of the support/background, the fineness of the sand and the size of the joints, binder to sand ratio values vary between 1 : 1.5 to 1 : 2.5

Choose well graded sands (#6 (3 -4mm) down to #200 (75 microns)). See also "General Guidelines – Sand for NHL mortars"

PLASTERING

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|-----------------|------------------------|---|
| A. Scratch Coat | 1/8"-3/16" (3-5 mm) | 1 volume of NHL 5 : 1.5 volumes sand - Cast on |
| B. Brown Coat | 5/8" - 3/4" (15-20 mm) | 1 volume of NHL 5 : 2 volumes sand* (1:2.5 max) |
| C. Finish Coat | 3/16" - 3/8" (5-10 mm) | 1 volume of NHL 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 2.34 lbs (0.4 kg) of NHL 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.