**NHL 5**

**Main Data and Application Recommendations**

*Product specification: pure and natural hydraulic lime.* Contains no additives. Conforms to European Norm (EN 459) and French Norm NFP 15.311

**Strength factor:** 5 (Eminently hydraulic)

**Density (volumetric weight):** typical: 43.7 lb/ft³ (700 gr. / litre)

**Whiteness index:** 67

**Expansion:** < 3/64” (1mm)

**Available (free) lime Ca(OH)₂ after slaking:** 15% - 20%

**Residue of quick lime after slaking:** < 1%

**Residue @ 0.09 mm:** 7%

**Surface cover:** 244 ft²/oz (cm² per gram: 8000)

**Surface cover:** 244 ft²/oz (cm² per gram: 8000)

**Packing:** 66 lbs. (30kg) Bags

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

**MORTARS**

<table>
<thead>
<tr>
<th>MIX RATIO</th>
<th>Compressive strength - PSI(N/mm²)</th>
<th>Elasticity Moduli 10³psi (Mpa)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN459*</td>
<td>1 : 2</td>
<td>1 : 2 1 : 2.5 1 : 3</td>
</tr>
<tr>
<td>7 DAYS</td>
<td>284(1.96) 245(1.00) 128(0.88)</td>
<td>1566(10800) 1595(11000) 1450(10000)</td>
</tr>
<tr>
<td>28 DAYS</td>
<td>725(5*) 319(2.20) 290(2.00) 217(1.50)</td>
<td>2610(18000) 2472(17050) 2450(16900)</td>
</tr>
<tr>
<td>6 MONTHS</td>
<td>1060(7.31) 857(5.91) 770(5.31)</td>
<td>2342(16150)</td>
</tr>
<tr>
<td>12 MONTHS</td>
<td>1346(9.28) 1282(8.84) 942(6.50)</td>
<td>2342(16150)</td>
</tr>
<tr>
<td>24 MONTHS</td>
<td>1567(10.81) 1277(8.81) 1131(7.80)</td>
<td>2527(17430)</td>
</tr>
</tbody>
</table>

Consumption for 1 yard³ (1m³)

lbs +/-10% (kg. +/- 10%)  590(350)  472(280)  393(233)

* 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 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 Stacs/New Build (Masonry)

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

Choose well graded sands (#6 (3 or 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 5 : 1.5 VOLUMES OF SAND Cast on recommended

B. Brown Coat  5/8” – 3/4” (15-20mm)  1 volume of NHL 5 : 2 VOLUMES OF SAND * (1:2.5 max)

*C at this dosage the consumption is approx 2.34 lbs (0.4 kg) of NHL 5 per square yard (m²) for each 1/8” (m) of thickness

C. Finish Coat  3/16” – 3/8” (5-10mm)  USE NHL 3.5 OR NHL 2, see relevant sheets

* 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.