# GENERAL GUIDELINES

## Hourdex - a multi use Binder

St Astier Natural Hydraulic Limes (NHL)
For building mortars, renders stipple and base coats, roofing, chimneys, floor tiling.
Based on St. Astier natural hydraulic lime with addition of OPC and additives for highly workable and breathable mortars.

| | POWDER | Test std. | MORTAR (sand 0-3mm, Volume 1:3) | Test std. |
|---|---|---|---|---|
| *Dry Density* | *800 g.l. +/-10%* | *BS459* | *1425g.l +/- 25g dry*<br>*1650g.l +/- 50g wet* | *EN1015-11*<br>*EN 1015-6* |
| *Whiteness* | *40.55* | *NFX08.012* | | |
| *Workability (depending on water addition)* | | | *210mm +/- 10mm* | *EN1015-3* |
| *Water retention* | | | *81% +/- 3%* | *CSTB 2669-4* |
| *Compressive strength*<br>24 hrs<br>7 days<br>28 days | | | <br>*1.5 N.mm²*<br>*4-5 N.mm²*<br>*6-7 N.mm²* | <br>*BS998.2*<br>*BS998.2*<br>*BS998.2* |
| *Thermal conductivity* | | | *0.540 W/m.K* | *EN 1745* |
| *Vapour permeability* | | | *1,60.10⁻⁹kg/m²sPa (0.77g x m² x h x mmHg)* | EN 1015-19 |
| *Elasticity moduli* | | | *7000 – 9000 MPa* | *CSTB* |
| *Capillarity* | | | 0.75 g.min. | |
| *Fire resistance* | | | *Class A1 (with silica or calcareous sands)* | |

**Mortar preparation:** Up to 5 minutes in conventional drum mixers.

**Sand:** Clean, well graded 0-3mm (general). Lower or higher granulometries can be adopted.
Avoid monogranular sands. Sands for renders base coats should not be below 0-2mm.

Adequately dampen materials or background if too dry or with high suction. Do not work in temperatures below 5°C or above 35°C. The building materials or background should not be frosty or too hot or water saturated. Protect fresh mortars from frost, rain or strong direct sun. Storage: in dry store. Reseal open bags a.s.a.p

| DOSAGES | HOURDEX | SAND (0-3mm) | By Volume |
|---|---|---|---|
| Bricks, blocks, | 1 bag (35kg) | 120 litres | 1 : 3 sand |
| Floor tiling | 1 bag (35kg) | 120 litres | 1 : 3 sand |
| Roofing | 1 bag (35kg) | 100 litres | 1 : 2.5 sand |
| Chimneys | 1 bag (35kg) | 90 litres | 1 : 2.25 sand |
| Renders (base coat)<br>*Manual application*<br>*Sprayed application* | <br>1 bag (35kg)<br>1 bag (35kg) | <br>100 litres<br>80 litres (+/-10%) | <br>1 : 2.5 sand<br>1 : 2 sand |

*The information given in this document is for guidance purposes only and is not intended to be a specification*

**Cornish Lime Company**
**Brims Park Old Callywith Road Bodmin Cornwall PL31 2DZ Registered Number: 4391187**
**Tel: (01208) 79779 Fax: (01208) 73744 Email: sales@cornishlime.co.uk Web: www.cornishlime.co.uk**