

## **HOUREX 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.

	<i>POWDER</i>	<i>Test std.</i>	<i>MORTAR (sand 0-3mm, Volume 1:3)</i>	<i>Test std.</i>
<i>Dry Density</i>	800 g.l. +/- 10%	BS459	1425g.l +/- 25g dry 1650g.l +/- 50g wet	EN1015-11 EN 1015-6
<i>Whiteness</i>	40.55	NFX08.012		
<i>Workability (depending on water addition)</i>			210mm +/- 10mm	EN1015-3
<i>Water retention</i>			81% +/- 3%	CSTB 2669-4
<i>Compressive strength 24h</i>			3 N/mm <sup>2</sup>	BS459
<i>7 days</i>			10.15 N/mm <sup>2</sup>	BS 459
<i>28 days</i>			15.2 N/mm <sup>2</sup>	BS 459
<i>Thermal conductivity</i>			0.540 W/m.K	EN 1745
<i>Vapour permeability</i>			1,60.10 <sup>-9</sup> kg/m <sup>2</sup> sPa (0.77g x m <sup>2</sup> x h x mmHg)	EN 1015-19
<i>Elasticity moduli</i>			7000 – 9000 MPa	CSTB
<i>Fire resistance</i>			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)	1 bag (35kg)		
<i>Manual application</i>	1 bag (35kg)	100 litres	1 : 2.5 sand
<i>Sprayed application</i>	1 bag (35kg)	80 litres (+/-10%)	1 : 2 sand

**The above details are given for general information purposes and do not constitute a specification.**

**For further Guidance, contact your St Astier Distributor.**

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