

EcoMortar Premixed natural hydraulic lime building mortars

St Astier Natural Hydraulic Limes (NHL)

Premixed mortars for building, rendering and finishing in a variety of colours

See: [COLOUR CHART](#)

The absence of cement, ashes, gypsum and other pozzolanic additions together with its other qualities, make **EcoMortar** highly suitable for repair and conservation work on traditional, vernacular and historic buildings. In new build the properties of **EcoMortar** will allow joint free construction, dispersion of condensation and will accommodate small settlement movements.

Ecofriendly characteristics:

- High vapour exchange qualities
- Produced with lower energy than cementitious mixes
- Re-absorption of CO₂ in curing
- Will not deteriorate timber
- Possibility of recycling the materials used in building
- Elimination of painted finishes



See: [COLOUR CHART](#)

Mechanical characteristics

		EcoMortar G	EcoMortar F
Dry bulk density	kg/m ³	1350	1400
Compressive strength 7 days	N/mm ²	1.2	1.0
28 days		1.9	1.5
90 days		3.6	3.0
Elasticity Moduli	MPa	5000	4000
Vapour Permeability Gr. Air x m ² x hour		0.85	0.89

G granulometry from 3mm to 0.08 for pointing, dubbing out, first and main coats on renders and rough finishing coats. For bedding mortars (10mm joints) use type CG.

F granulometry from 1.18mm to 0.08 for fine joints work, plastering and smooth finishing coats on renders. Available in a wide range of colours. When used as a finishing coat make sure that the backing coat is straight, dry and sufficiently hard to accept the finishing coat.

For **Roughcast** and **Harling** coarser granulometry is available on special order.

Packing: 35 kg. Bags

Preparation: in ordinary drum mixers (mix for about 5 minutes) Water addition: EcoMortar **G** : 4.0 litres - 4.5 litres per bag of 35 kg EcoMortar **F** : 4.5 litres - 5.0 litres per bag of 35 kg.

Application: on clean and dry background not water proofed. Dampen adequately dry or high suction surfaces. Protect against strong rain, frost, drying wind or direct strong sun until sufficient hardening has occurred. See "[Protecting Lime Mortar](#)".

Application by spray gun: possible. Please consult us. **See also:** "Applications & Good Working Practices - [Working with Ecomortar](#)"

Type G Mortar.

Render & Plaster Work	KGs per m ² per per mm thick 1.7 KGs	KGs per m ² per 5mm thick 8.5 KGs	Approximate cost per m ² @ 5mm thick £3.45p
Pointing Brick work (Standard bricks)	KGs per m ² @ 10mm deep 1.85 KGs	KGs per m ² @ 20mm deep 3.8 KGS	Approximate cost per m ² @ 10mm deep £0.75p
Construction Brickwork single leaf ½ brick thick	KGs per m ² using a standard 65mm X 103mm X 215mm brick (no frog) 17.4 KGs	KGs per 100 m ² using a standard 65mm X 103mm X 215mm brick (no frog) 1740 KGs	Approximate cost per m ² using a standard 65mm X 103mm X 215mm brick (no frog) £6.96p
Construction Stone Masonry (Typically split faced walling)	KGs per linear m @ 100mm bed X 10mm thick 1.74 KGs	KGs per Linear m @ 150mm bed X 10mm thick 2.61 KGs	Approximate cost per Linear m @ 100mm bed X 10mm thick £0.77p

Type F Mortar.

Render & Plaster Finishing Coats	KGs per m ² per mm thick 1.8 KGs	KGs per m ² per 5mm thick 9 KGs	Approximate cost per m ² @ 5mm thick £4.36p
Pointing Brick work (Standard bricks)	KGs per m ² @ 10mm deep 2 KGs	KGs per m ² @ 20mm deep 4 KGs	Approximate cost per m ² @ 10mm deep £0.97p
Construction Ashlar Masonry	KGs per Linear m @ 75mm bed width X 5mm thick 0.47 KGs	KGs per Linear m @ 100mm bed width X 5mm thick 0.63 KGs	Approximate cost per Linear m @ 75mm bed width X 5mm thick £0.29p
Pointing Ashlar Masonry	KGs per Linear m @ 5mm thick X 15mm deep 0.1 KGs	KGs per 100 Linear m @ 5mm thick X 15mm deep 10 KGs	Approximate cost per 1 Linear m @ 5mm thick X 15mm deep £0.055p

Costs are correct at time of publication (May 2001) and refer to materials only.

For further Guidance, contact your St Astier Distributor.

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