

EcoMortar Premixed natural hydraulic lime building mortars

Premixed natural hydraulic lime mortars for building, rendering and finishing coats in a variety of colours

The absence of cement, ashes 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

Mechanical characteristics Type C construction grade – Type F Finishing grade (Medium waterproofing) – Type WP/NHL3.5 (Maximum waterproofing)

	Units	EcoMortar C & F With NHL 3.5	EcoMortar C & F with NHL2 and WP with NHL 3.5
Dry bulk density	kg/m ³	1400	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	g.m ² .hour.mmHg	0.85	0.89WP = 0.85
Capillarity			
Type C and F	g.m ² .min ^{-1/2}	1 - 2	2 - 30.2
Type WP			

Granulometries (maximum grain size):

EF = 0.8mm TF = 1.3mm F = 1.8mm M = 2.5mm

Type WP only available in EF and TF.



Range:

C Grade	F Grade	WP Grade
ECOMORTAR C NHL3,5 EF 020	ECOMORTAR F NHL3,5 EF 020	ECOMORTAR WP NHL3,5 EF 020
ECOMORTAR C NHL3,5 TF 020	ECOMORTAR F NHL3,5 TF 020	ECOMORTAR WP NHL3,5 TF 020
ECOMORTAR C NHL3,5 M 020	ECOMORTAR F NHL3,5 M 020	
ECOMORTAR C NHL2 EF 020	ECOMORTAR F NHL2 EF 020	
ECOMORTAR C NHL2 TF 020	ECOMORTAR F NHL2 TF 020	
ECOMORTAR C NHL2 M 020		

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 granulometries are available on special order (G4= 4mm and G5= 5mm).

Packing: 25 kg. Bags

Shelf life: 12 months in dry storage conditions. Re-seal partly used bags immediately.

Preparation: in ordinary drum mixers (mix for about 5 minutes)

Water addition:

EcoMortar **Granulometry EF:** 4.5 to 5 liters per 25 kg bag


EcoMortar **Granulometry TF, F, M:** 4 to 5 liters per 25 kg bag

Consumption per 25Kg Bag

Renders and Plasters: 1.6 m² at 10 mm thickness

Building: 50 std Bricks (no Frog)

Re-Pointing: 17 linear metres for 10mm x 10mm joints

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CHAUX ET ENDUITS DE SAINT-ASTIER La Jarthe - 24110 SAINT-ASTIER - France	
PLASTERING MORTAR FOR FACING (CR) N° DoP-ECOMORTAR-002 Norme EN 998-1	
Reaction to fire :	Class A1
Resistance to compression :	CS I
Adherence :	≥ 0,3 N/mm ² - FP : A B C
Water absorption :	W0
Permeability to water steam :	μ = 0,15 (in-between value)
Thermal conductivity :	λ = 0,66 (in-between value)

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

**This document is for information only and does not constitute a specification.
 For further Guidance, contact your Saint-Astier Distributor.**