Lime Green Natural Lime Mortar

V6

Pre mixed natural hydraulic lime and sand mortar. A general purpose mortar for building or pointing stone, brick and block: available in different strengths, sand gradings and colours.

General Information

Lime green Natural mortar is a dry pre-bagged lime mortar made with St Astier pure and natural hydraulic lime and including pigments where required.

Four different sand textures are available;
TF (approx 1.5mm and down)
F (approx 2mm and down)
M (approx 3mm and down)
C (approx 5mm and down)

Lime green has wide range of colour options; colour chart available on request.

Packing and availability

Available in 25 kg paper bags or sealed one tonne bulk bags for use with the mini silo system. All colours other than basic off white (M020) made to order.

Bulk density and consumption

Wet bulk density: 1900kg/m3 +/-100.
Repointing: 20kg/m² stonework; 7kg/m² brickwork.
Per 1m of wet mortar: building 1200-1800 bricks.

All figures approx.

Guidance on mortar choice

Mortar application	Natural Lime Mortar type
Internal use, external walls, soft bricks	Soft mortar *Made with **NHL2** lime*
General solid masonry Dense masonry, parapets and lintels	Medium mortar *Made with **NH3.5** lime*
Above roofline, below DPC incl. copings and cappings Earth retaining walls	Strong mortar *Made with **NHL5** lime*
The correct specification for any mortar should consider the structural requirements, nature and condition of the background, site exposure, time of the year and type of finish required. Less porous masonry units and harsh climates require greater mortar strength.	

Mixing

Add 25 kg of ***Lime Green Natural mortar*** into a drum mixer, avoid creating excessive dust. Add only 4 to 5 litres of clean water. Pour the water in slowly as the product mixes, using just enough to achieve the correct workability. Mix for 3 to 10 min. Lime green mortars may be reworked up to 8hrs. Please contact us for further information.

Application

Before pointing or building clean and remove all dust and loose material from joints and masonry, and adequately dampen dry or high suction surfaces. Pointing and building mortars should be finished the same day or the following day in cooler periods. Lime mortars require longer curing times than cement, but the methods and principles of application are similar. When pointing or laying hard impervious masonry and / or during damp cool weather lime mortars may take a few weeks before being fully able to resist frosts. Do not use in temperatures less than 5 ºC or over 30ºC.

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Product Data

Curing

Hydraulic lime mortars do not set as quickly as modern cement based materials; hydraulic lime starts to set once water is added and also hardens by reacting with carbon dioxide which is a slow process. Strength and long term durability are achieved over months, not days. Success relies on proper curing of the mortar. Protect the mortar against the effects of drying winds, strong sunlight, rain and frost. In warm weather gently mist spray with water after application and cover if required with damp hessian sheets. In cool weather cover fresh mortar with protective sheeting to help avoid frost damage.

Further information available upon request.

Full declaration of ingredients

20%+	Silica sand Limestone sand
1% to 20%	Natural Hydraulic Lime (NHL2, 3.5 or 5)
0.1% to 1%	Clay Mineral pigments (optional) Tallow (from animals)
Below 0.1%	Cellulose (from plants) Air entrainer (man made)
Others;	None

Performance

Product type	Strong mortar	Medium mortar	Soft mortar
Compressive strength N/mm2 28 days	>2	>1.5	>1
Compressive strength N/mm2 90 days	>4	>3	>2
Resistance to Freeze Thaw / sulphates	High	Medium	Med/Low
Elasticity moduli MPa	9500	7300	6250
Vapour exchange Gm air x m2 x hour x mmHg	0.5	0.64	0.71
Capillary water absorption kg(m^2.$min^{0.5}$)	<1.0	<1.0	<2.0

Health & safety

Risk Phrases

R36/37/38 Irritating to eyes, respiratory system and skin

R66 Repeated exposure may cause skin dryness or cracking

Safety phrases

S22 Do not breathe dust

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S24/25 Avoid contact with skin and eyes

S36 Wear suitable protective clothing

This is not a specification. Trials should be undertaken on old surfaces & backgrounds to ensure compatibility. Lime plasters do not set or perform like gypsum or cement based materials

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