

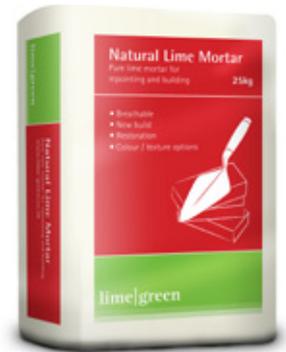
# Product Data Sheet: Ashlar Lime Mortar

9/09/2014

A traditional lime mortar available in a wide range of colours. For building or pointing fine joints in brick or stone. Easy and convenient to use - just add water. Please call for lead times.

## General Information

This is a traditional lime mortar made with St Astier natural hydraulic lime, stone dust and sand, to give a highly flexible, soft breathable mortar. It is generally suitable for joints of between 3 and 6mm, for both renovation and new build. Our mortar is available wide range of beautiful colours, Lime Green has a wide range of colour options. Product samples may be ordered.



## Packaging

Available in 25 kg bags, all colours are made to order.

## Coverage

**Repointing:** 20kg m<sup>2</sup> stonework; 7kg m<sup>2</sup> brickwork.

1 kg of dried product per brick, or 1.5 tonnes will produce 1 metre cubed of mortar.

## Surface Preparation

Before pointing or building, clean and remove all dust and loose material from joints and masonry, and adequately dampen dry or high suction surfaces.

## How to Mix

Slowly add 25 kg of Lime Green Natural mortar into a drum mixer. 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.

## How to Apply

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 °C or over 30°C.

## Curing and Why

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 cold weather cover fresh mortar with protective sheeting to help avoid frost damage.

## Performance

Product Type	Result	Standard Info
Compressive strength N/mm <sup>2</sup> 28 days	1 to 3 N/mm <sup>2</sup>	EN 1015-11
Compressive strength N/mm <sup>2</sup> 91 days	3 to 5 N/mm <sup>2</sup>	
Flexural Strength N/mm <sup>2</sup> @ 28 days	0.25 to 0.5 N/mm <sup>2</sup>	EN 1015-11
Bending Modulus @ 28 days	~200N/mm <sup>2</sup>	
Dried bulk density	1450 to 1650 kg/m <sup>3</sup>	EN 1015-10

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Product Type	Result	Standard Info
Reaction to fire		Class A
Min setting temperature	5°C and rising	
Water absorption	1.0 to 2.0 kg/(m <sup>2</sup> .min <sup>0.5</sup> )	EN 1015-18

Declaration of Ingredient	
+20%	Silica sand and NHL 3.5
1% to 20%	Stone dust
0.1% to 1%	Clay, Mineral pigments (optional) Tallow (from animals)
Below 0.1%	Cellulose (from plants) Air entrainer (man made)
Other	None

Health and Safety	
Risk Phrases	Safety Phrases
R36/37/38 Irritating to eyes, respiratory system and skin	S22 Do not breathe dust
R66 Repeated exposure may cause skin dryness or cracking	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

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<p><b>Lime Green Products Ltd</b>  <b>Coates Kilns, Stretton Road, Much Wenlock, TF13 6DG</b></p> <p>13</p>
<p><b>EN 998-2</b></p> <p><b><u>Prescribed</u> General Purpose (GP) masonry mortar for external use</b></p> <p><b>Proportion of Constituents (by volume):</b>            Natural Hydraulic Lime: 1 Part            Aggregates: 2 Parts  <b>Contents of chloride: NPD</b>  <b>Water absorption: 1.5 kg/(m<sup>2</sup>.min<sup>0.5</sup>)</b>  <b>Water vapour permeability: μ 5 / 20</b>  <b>Reaction to fire: Class A1</b>  <b>Thermal Conductivity: (λ10, dry) P=50%: 0.47 W/mK</b>  <b>P=90%: 0.54 W/mK</b></p> <p><b>Durability (against freeze-thaw):</b> evaluation based on provisions valid in the intended place of use of the mortar.</p>

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