



# Womersley's

Issue 2 – Jan 2023

## Hot Lime Mortar – Data Sheet

### **Product**

Womersley's ready-mixed Hot Lime Mortar is a freshly made-to-order and ready to use mortar mix that simply requires 'knocking-up' prior to application.

Mix Ratio – 1:3 slaked quicklime and a blend of Grit and River sand 4mm down.  
For custom mix ratios and aggregates please contact us.

Supplied with or without a pozzolan.

It is made using high calcium quicklime powder from Buxton.

### **Usage**

Hot Lime mortar is a traditional mortar used for building or pointing. It is manufactured on site in Yorkshire from Buxton Calbux 90 Quicklime and selected aggregates. Hot Lime mortar is ideal for the care and restoration of older buildings, and can be used both internally and externally.

Womersleys use finely ground quicklime blended with good quality sands in a pan mixer, producing a lime rich and very fatty workable mortar for re-pointing and rebuilding solid walls.

A hot-lime mortar is an excellent and very vapour permeable mortar, with a good 'sticky' consistency and high-water retention. The Hot-lime mortar can be up to twice as breathable as NHL 3.5 mortar.

### **Coverage**

Coverage approx. 1m<sup>2</sup> from 20kg at or 40m<sup>2</sup> per tonne bag.

### **Advantages**

- Quality controlled production
- Consistency of mix ratio
- OO-site handling of quicklime
- Breathable
- Entirely natural

### **Colours**

Available in a range of aggregate sizes and 12. The colour is achieved from different aggregates and the addition of natural Pozzolans.

### **Surface Preparation**

Before pointing remove all dust and loose material from joints. Dampen the area to be repointed first to help curing.

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## How to Mix

Womersley's Hot Lime Mix is ready to use. Any excess water on top of the tub should be poured away and the mortar knocked up. If using pozzolan then add to the fatty hot lime mix and any additional water that's required to achieve a good workable mix.

## How to Apply

**Building:** the mortar should be used as stiff as feasible but clearly it has to be workable. Hot mixed mortars are extremely sticky and fatty so are ideal for most types of stonework or brickwork.

**Pointing:** The mortar should be used as stiff as feasible but the mix must be workable. For pointing we would recommend raking to a depth of 20mm. To ensure a good compaction and adhesion when using the Hot Lime mix for re pointing, the mortar can be tampered with a bristle brush as it starts to firm up. This process also brings the sharp aggregate to the surface creating a lovely textured finish.

Application temperature 5-30 C. Protect with hessian against strong sunlight, heavy rain and frost.

For an extended shelf life avoid exposure to excess heat or cold and keep in an airtight container

## Curing and Why

Hot Lime is made from quicklime which slakes to form a non-hydraulic lime. Non-Hydraulic Lime mortars do not set as quickly as modern cement based products or Natural Hydraulic Lime. They set by carbonation, meaning a much slower set and the lime remains softer and more breathable. This process will be influenced by climatic conditions and will behave very differently between the seasons.

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. In cold weather cover fresh mortar with protective layers of hessian to help avoid frost damage.

## Packaging

Available in a 10l / 16kg tub, a 20l 35kg tub or a sealed one tonne bulk bags. The plastic used is suitable for recycling.

## Storage

This product can be stored in dry conditions and should be kept away from freezing conditions. The shelf life is technically indefinite but realistically we would recommend use within 12 months.

## Health and Safety

Risk Phrases	Safety phrases
R36/37/38 Irritating to eyes, respiratory system and skin	S2 Keep out of reach of children
R43 Contact with wet mortar may cause irritation, dermatitis and/or burns	S26 In case contact with eyes, rinse immediately with plenty water and seek medical advice.
R 66 Repeated exposure may cause skin dryness and cracking	S24/25 Avoid contact with skin and eyes
	S36 Wear suitable protective clothing

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Contains Calcium Hydroxide  $Ca(OH)_2$ . Risk of serious damage to skin and eyes. Every effort should be made to protect your eyes, in the event of any getting in the eyes then rinse thoroughly for several minutes. Should discomfort continue seek medical attention.

#### Declaration

This product contains no NHL or cement.

All Womersley's products are manufactured under an ISO9001:2015 accredited factory production control system.

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