

WHITE PEAK LIME PUTTY

User Guide

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White Peak Lime Putty is made from the finest Buxton quicklime. Matured for a minimum of 4 months it is ideal for the production of lime mortars, plasters and renders in restoration and conservation work.

Lime putty has no hydraulic set (does not set by reaction with water). It hardens by absorbing carbon dioxide from the air. This process is slow and allows for small movements of buildings before the final set. Lime mortar made with lime putty is a very workable material and when hardened is more ductile than cement based mortars. This allows the building to continue to accommodate small movements. Lime mortars are also “breathable” and this helps in control of moisture in the building fabric. The bond strength of lime mortar is normally weaker than the fabric, which makes it easier to eventually recycle the masonry units.

MORTARS

Lime putty will hold up to three times its volume of clean well-graded sand. No further addition of water is required to make a mortar. We recommend 2 1/2 to 3 parts by volume of sand for mortar production. Thorough mixing for up to 20 minutes will ensure a workable product is achieved.

For repointing: Remove all mortar to a depth of 1 inch, ensure joints are dampened down, re-mix the mortar to ensure workability. Pozzolans can be added before remixing if using. Pack joints thoroughly, shape whilst it is in the green state. Ensure mortar dries slowly usually over 2 to 3 days. Dampen down if necessary in hot weather to prevent shrinkage.

Pozzolanic additions

Pozzolans such as fly ash or ground blastfurnace slag can be added to give a hydraulic set and increase the strength of lime mortars. Please refer to the supplier’s user guides for addition quantities. Trial mixes should be used on a small test area for suitability before you commence on a large area.

LIME PLASTER

Background preparation

Ensure background is clean and dust free. Dampen down the surface to prevent excessive suction. This can be done several times the day before and repeated just before application. Always start at the top of the wall.

Dubbing out

It may be necessary to apply a dubbing out coat to surfaces with large amounts of damaged joints. Always allow this coat to dry out before keying.

Undercoat/Scratch coat

Can be applied 3 -4 days after the dubbing out coat. It can be made from 1 part White Peak lime putty to 2.5 parts grit sand. Before use, hair can be added for extra strength at an addition rate of 0.5kg per 100 litres of plaster. Apply plaster in a layer of 10 -12mm. If a thicker plaster is required apply two coats. Allow for sufficient drying times between coats. Key the surface between coats.

Float coat

Can be applied 4 -5 days after the undercoat. This is made from 1 part White Peak lime putty to 2.5 parts well-graded sand. Hair can be added to the rate of 0.5kg per 100 litres of plaster. This layer should be no thicker than 11mm. Check for shrinkage in the first 2 days and dampen down the surface if necessary.

Finishing coat

Apply un haired mix 1 part White Peak lime putty to 1 part fine silica sand for a fine internal finish. For an external finish 1 part White Peak lime putty to 2 parts good quality building sand is suitable. Plastering and Rendering on timber laths Wet the laths well the day before plastering and again 2 hours before you start. If dry patches appear dampen them down, unless the laths have been treated with fungicide or insecticide in which case they must be allowed to become surface dry before plastering. It is advisable to add hair to every coat except the finishing coat.

The mortar for the first coat must be stiff enough to hold up when laid but pliable enough to squeeze between the laths.

Storage

On opening the tub it is common for a small amount of liquor to be present on the surface. We recommend this is decanted off before use, and replaced on the surface before resealing tubs containing unused lime putty.

Always store under frost-free conditions. Replace the surface water on top of the putty and tightly reseal any part used tubs.

Lime putty improves with age. It can be stored unopened for many years. Well-sealed, part used tubs will also be useable for many years.

HEALTH AND SAFETY

Handle with care and avoid direct contact with the skin and eyes. Always wear the correct protective clothing and immediately wash any product from the skin and eyes with copious amounts of clean water. Please refer to our website and/or health and safety product data sheets for further information.

Please refer to our chemical safety data sheet for further advice which can be obtained via our website or by contacting our technical team.

ORDERS

Lime putty is supplied in 16 litre tubs, 33 x 15 litre tubs (approximate weight 700 Kg) palletised and shrink wrapped and delivered in load sizes up to 24 tonnes, or via distributors.

Details of stockists are on our website
TARMAC.CO.UK/BUXTONLIME

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TECHNICAL ASSISTANCE

For further technical assistance please call
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