

Condition 3:

Prior to the commencement of repointing works, a sample panel of the repointing (minimum 1m x 1m) shall be constructed on the site demonstrating the proposed mortar mix, joint profile, finish, and workmanship. This panel will be inspected by the Local Planning Authority's Conservation Officer and photographic evidence of the sample panel including details of the mortar mix will be submitted to and approved in writing by the Local Planning Authority. Once approved, the work can proceed, and the details so approved will be used within the construction of the development. The repointing works shall thereafter be carried out in full accordance with the approved specification and sample panel.

Condition 4:

No development shall take place until a sample 1 square meter sample panel of the new brick walling has been constructed on the site demonstrating the proposed mortar mix, joint profile, finish, and workmanship shall be prepared on site. This section will be inspected by the Local Planning Authority's Conservation Officer and photographic evidence of the sample panel including details of the mortar mix will be submitted to and approved in writing by the Local Planning Authority. Once approved, the work can proceed, and the details so approved will be used within the construction of the development.

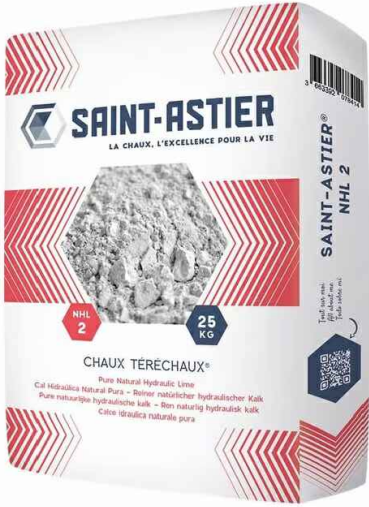
Re-pointing works:

Pointing Mortar - Site prepared hot lime mortar:

- Mix Ratio: 1:2.5 Lime : Sand by volume
- Lime: NHL 2 soft and slow setting, suitable for where conservation is a primary concern with soft or deteriorating stones and bricks.
- Sand: Kingley Vale Mix, pale yellow, naturally graded grit sand, graded 0–5mm. To comply with BS 13139 Aggregates for mortar. To be well graded and free of clay, silt, organic matter and excessive fines. Blending sands and aggregates from different sources may be necessary to achieve the desired colour/match.
- Water: water shall be clean and fresh, free from organic and harmful matter in such quantities as would adversely affect the properties of the mortar.
- Admixtures: none.
- Colour, texture and strength: the mortar shall be a little softer and more porous than the masonry concerned. New mortar, when dried out, will match the original colour and texture of the existing mortar. Allow for crushing stone, other aggregates, blending and sieving sands from different sources, as necessary, to achieve appropriate grading, colour and texture.
- Pointing finish: to match existing - Raked profile, clean arris.
- Mixing: Ensure NHL2 is uniformly dispersed and that any fine agglomerations are broken down. The time of mixing will be controlled by the efficiency of the mixer. Roller-pan mixers and screed mixers have the most efficient action, but simple tilting-drum cement mortar mixers can be used if a longer mixing time is allowed.

For tilting-drum mixer:

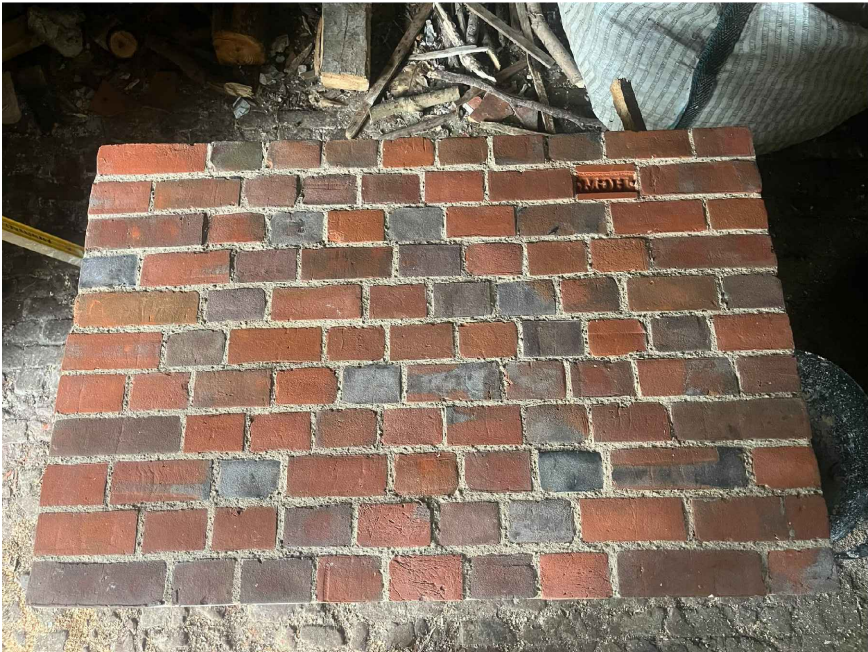
- Wear protective goggles and waterproof gloves.
- Introduce half of the sand and add all the lime. Mix for 2 to 5 minutes until a uniform colour is achieved.
- Stop the mixer and isolate the drive. Scrape down any material adhering to the back. Add the remaining sand and mix again for 2 to 5 minutes to get uniform dispersion.
- Continue mixing, adding water slowly over at least 10 minutes and giving plenty of time for water to be fully incorporated. The mortar should be more like a dough than a slurry and the less water added to achieve this, the better the mortar performance will be.
- The longer the final mixing time the more workable (fatter) the mortar will be. Allow the mix to stand for 15 minutes or longer for greater workability, before re-mixing for a further 5 minutes (in hot weather do not over-mix as water will be lost through evaporation).
- Do not apply lime mortars at temperatures below 5 °C or above 30 °C, avoiding application in high sun exposure and/or under strong winds. Dampen down the substrate with clean water before application to avoid lime mixes drying out and to control suction – therefore minimising the potential for shrinkage and cracking. Mortars may also benefit from dampening down again after application where conditions dictate.
- Brickwork preparation: Loose existing mortar must be raked out by hand and dust removed, to a depth equal to twice the width of the joint and not less than 25mm, whichever is greater. Sound mortars should be left. Where it is desirable to remove cementitious pointing, trials are to be carried out in discrete locations to determine the most appropriate method of removal and to limit damage caused to existing work. Assess the moisture content of the background - for dry substrates, dampen all bricks and adjoining surfaces, for wet substrates allow it to dry prior to application. No cleaning agents or fungicides are to be used either before or after repair works
- Application: Mortar for pointing should be kept stiff and dry in order to compress it into the joint without smearing. Do not overwork mortar. The mortar is to be pressed into the joint and firmly ironed in with the maximum possible pressure and minimum of over-working. Take care not to get mortar on the face of the brickwork. Bring out mortar joints in layers of up to 10 - 15mm thick to allow carbonation, using a pointing or finger trowel. Leave each layer until set, but not dried out - the mortar should be 'too hard to dent with a knuckle yet soft enough to mark with a thumbnail.' Completed work should be left to 'stiffen up' for up to 24 hours before brushing with a churn brush, to achieve desired finish.
- Protection and after care: Allow for suitable weather protection during the works, and for a suitable period of after care, to ensure complete carbonation. Protect from Dry and windy, hot, wet or frost. sun, heat or frost.



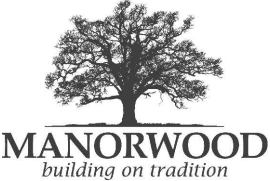
Saint-Astier® NHL2 Or similar Natural Hydraulic Lime



Kingley Vale Mix



Site prepared sample



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All dimensions must be checked on
site prior to commencement of works.

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Drawing

PO/3/26/L

Conditions 3 and 4

Re-pointing works

Scale @ A3

As Indicated

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FOR COMMENT

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