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Mortar Spec and Methodology
Homefield Farm, Alconbury

Mortar composition:

Limelite Heritage Lime Mortar - As Spec Data Sheet attached on next pages.
Limelite Heritage Lime Mortar is a lime based cement free mortar used for brick laying, block laying and stone masonry work for internal and external applications.
Limelite Heritage Lime Mortar in 0-4mm aggregate size.
Colour to be Light Grey - See Page 3 for colours.

Lime mortar provided ready to use by a specialist lime mortar supplier, in accordance with specification, BS EN 998-2:2016 Specification for masonry mortar; with aggregates complying to BS EN 13139, Aggregates for mortar standard; Mixed and tested in accordance with BS 812-2:1995, Testing aggregates.

Mortar Description	Limelite Heritage Lime Mortar 0.4
Maximum aggregate size	4mm
Lime : Sand	1:2.25
Typical compressive strength at 91 days	2.5 N/mm2
Resistance to freeze thaw	High
Resistance to sulphates	High
Mortar Durability Class	5-6

Brick laying patterns Bond:

Bricks to be laid in Flemish bond: Alternating headers and stretchers in the same course with headers centred over stretchers in the course below.
This will match the existing Farmhouse building

Joint tooling:

After placing bricks, excess mortar is removed and the joints are finished using a trowel to create a “flush joint” (flat). The brick and mortar is then finished with a brushed finish.

Important considerations:

Workability of mortar: The mortar needs to be the right consistency to adhere well to the bricks and fill gaps properly.

Brick selection: Existing reclaimed bricks to be used, sourced on site at Homefield Farm, as per image provided by the client.

Proper levelling: Ensuring each course of bricks is level to maintain structural integrity.

Mixing Instructions

Limelite Heritage Lime Mortars should be mixed using cool, clean water. Limelite Heritage Lime Mortars can be mixed using a conventional Belle type mixer. The inside of the mixer should be wetted and then the contents of the Limelite Heritage Lime Mortar bag should be emptied into the mixer whilst stationary. Approximately 5 litres of water will be required for each 25 kg bag of Limelite Heritage Lime Mortar.

A small amount of the water should be added to the dry powder and the mixer should be turned on. The water should be allowed to thoroughly disperse into the mix before adding more water. Continue adding small amounts of water until 4.5 litres has been added allowing the thorough dispersion after each addition. Allow the mortar to mix for between 5 to 10 minutes and then add the remaining water to achieve the required consistency. Slightly more or less water may be required and the consistency can be checked by placing a small amount of mortar on to the back of a trowel tapping it gently and allowing the mortar to spread evenly across the face, then hold the trowel upside down at which point the mortar should remain stuck. The workability of the mortar can be improved by allowing it to stand and then remixing it just before use.

Yield

One 25kg bag of Limelite Heritage Lime Mortar will lay approximately 25 bricks with a 10mm joint for a single brick skin or 1000 bricks per tonne of mortar. For re-pointing one 25kg bag will produce approximately 2.8m2 with a 10mm joint. One tonne of Limelite Heritage Lime Mortar will lay a maximum of 1,000 no. 65mm bricks or 600 no. 100mm blocks or 430 no. 140mm blocks. No wastage factor is allowed.

Clean Up & Spillages

Tools and equipment can easily be cleaned using water. Cleaning of tools and equipment should be carried out as soon as possible after application.

LIMELITE HERITAGE LIME MORTAR

PRODUCT DATA SHEET

LIMELITE HERITAGE LIME MORTAR

LIMELITE HERITAGE PRODUCTS

LIMELITE HERITAGE LIME MORTAR

Description

Limelite Heritage Lime Mortar is a cement-free blend of natural hydraulic lime and selected aggregates. The mortar is highly workable and combines long term flexibility and breathability with durability.

The mortar is available in two aggregate grades, 4mm grit for standard wider 10mm joints and 2mm for thin joint work, in a range of six colours. Both mortars are available in two strength types M2.5 and M5.0 - also known as HLM2.5 & HLM5.0. M2.5 is a medium strength lime mortar known as moderate mix and typically used for most building works and masonry types, brick, block, stone. M5.0 is high strength lime mortar known as eminent mix where a higher level of durability is required below DPC and in exposed areas such as chimneys, copings or canals/ marine work. It provides faster, harder set and offers a higher resistance to the freeze/thaw cycle along with high resistance to sulphates attack.

Uses

Limelite Heritage Lime Mortars are used for most building works or majority of masonry types in cavity wall construction, applications include brick, block, stonework, rendering and repointing, both externally & internally. The near zero expansion of NHL binders and the elasticity of pure NHL mortars are such that joint free construction is possible.

Features

- Lime based, Portland cement free mortar
- Long term durability and flexibility prolong the sustainability/life of the building
- Good vapour permeability enables building to “breathe” - increasing the resistance to freeze/thaw, damp, lime bloom and efflorescence
- Breathability allows moisture to be absorbed and then released as water vapour through the joints reducing the need for “weepholes”
- Easy to use - a factory produced premixed hydraulic lime mortar, just add water - “Mix & Use”
- Aesthetically pleasing masonry walls built with Limelite Heritage Lime Mortars enhance the character of brick/brickwork
- Lime based mortars are less susceptible to sulphate attack
- The flexible nature of Limelite Heritage Lime Mortar means that a reduced amount of vertical movement joints is required
- Autogeneous healing & tolerance to structural movement reduces the chance of cracking
- Environmentally friendly - 20% less CO_2 is generated in production than cement which is actively re-absorbed in carbonation/curing
- Lime mortar is “hygroscopic” through its open pore structure; it allows free flow of moisture in and out of the building. Naturally aseptic preventing damp, green mould and moisture build up in the walls creating a “healthier building”



Yield

One 25kg bag of **Limelite Heritage Lime Mortar** will lay approximately 25 bricks with a 10mm joint for a single brick skin or 1,000 bricks per tonne of mortar. For re-pointing one 25kg bag will produce approximately 2.8m² with a 10mm joint. One tonne of **Limelite Heritage Lime Mortar** will lay a maximum of 1,000 no. 65mm bricks or 600 no. 100mm blocks or 430 no. 140mm blocks. No wastage factor is allowed.

Mixing

Limelite Heritage Lime Mortars should be mixed using cool, clean water. **Limelite Heritage Lime Mortars** can be mixed using a conventional Belle type mixer. The inside of the mixer should be wetted and then the contents of the **Limelite Heritage Lime Mortar** bag should be emptied into the mixer whilst stationary. Approximately 5 litres of water will be required for each 25 kg bag of **Limelite Heritage Lime Mortar**.

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LIMELITE HERITAGE LIME MORTAR

Colours

Limelite Heritage Lime Mortar is available in arrange of 6 standard colours. A bespoke colour matching service is also available – please contact us for further details.



Technical Performance

Mortar Description	Limelite Heritage Mortar 0-4	Limelite Heritage Mortar 0-4
Maximum aggregate size	4mm	4mm
Lime : Sand	1:2.25	1:2
Typicalcompressive strength at 91 days	2.5 N/mm²	5.0 N/mm²
Resistance to freeze thaw	High	High
Resistance to sulphates	High	High
Mortar Durability Class	5-6	7-8

Technical performance is derived by laboratory testing at 20°C

Quality Control

Limelite Heritage Lime Mortar is factory blended, tested and packaged to quality control procedures in accordance with BS EN ISO 9001.

Clean up & spillages

Dry powders should be swept up and disposed of in accordance with Local Authority regulations.

Tools and equipment can easily be cleaned using water. Cleaning of tools and equipment should be carried out as soon as possible after application.

Packaging & Storage

Limelite Heritage Lime Mortar is available in nominal 25kg bags palletised and shrink wrapped.

Palletised **Limelite Heritage Lime Mortar** should be stored in cool, dry areas clear of the ground, sheeted or under cover and stacked not more than two pallets high. The product should be used on a first in – first out basis. Shelf life is 6 months subject to temperature and humidity.

Individual bags of **Limelite Heritage Lime Mortar** should be stored in sealed original packaging in a dry location at temperatures between 5°C and 30°C. Avoid exposure to water, frost or heat – extremes in temperatures and high humidity will lead to a reduced shelf life.

Health & Safety

Health and safety advice, which must be followed, can be found on the Material Safety Data Sheet.

Users are advised to wear protective clothing when using Limelite Heritage Lime Pointing Mortar including face mask, goggles, gloves and overalls when handling, mixing and applying this product. Skin contact should be avoided and any eye contact should be dealt with promptly by irrigation with clean water.

Information, Prices & Ordering

If you have any questions about choosing the right product for your particular job, or if you are ready to order, please call us on:

03444 63 00 46

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