

Telling Lime

Unilit Natural Hydraulic Lime Products

Unilit is now approaching its 20th year of sales to the UK restoration market. A range of natural hydraulic lime mortars, traditional renders, grouts and decorative finishes combining characteristics of porosity, adhesion and flexibility with modern day demands for consistency, a 'non-synthetic' stucco effect and ease of application.

For refurbishment and new build a new K-Lime range of mortars has been developed with Kilwaughter Lime, using selected limestone sands, these are competitively priced for general purpose, screed, bedding and plastering.

Natural hydraulic lime products have the following characteristics:

- The replication of the qualities of historic lime mortars assures compatibility with all natural mineral & lime mortar backgrounds
- Conservation work may be continuous during winter months with limited protection required
- Resilience to flooding both in construction & remedy
- Mortars that do not leech free lime deposits on to the mortar face
- Tolerance of damp & salts transfer during setting without detriment to performance
- Ability for work to be completed more quickly & economically without specialist skills
- Mortars never become harder than the substrate to which they are applied
- Moisture is extracted naturally & without time limit from masonry backgrounds
- When used with Foamglas® (66% recycled cellular glass) our hydraulic render lime offers unsurpassed qualities in impact resistance, non combustibility & waterproofing with traditional 'non-synthetic' stucco finishes
- Lime bonding bridge coats ensure adhesion & compatibility for façade upgrading, negating the need to remove sound renders
- Whilst harmful CO₂ emissions occur during the production of both cement & lime, lime mortars are burnt at a temperature of 900°C & cement at >1450°C. Additionally, a study of the lime cycle demonstrates that as much as 60% of CO₂ is retained during the carbonation/setting process of natural hydraulic lime as is released during the burning of limestone

Applications

Natural hydraulic lime is suited for restoration and new build to promote expansion joint free construction. Lime mortars allow the structure to move as individual elements rather than as a mass.

Unilit hydraulic lime products conform to the European Standard ENV-4951, NHL 2 - 3.5 and 5.0 for natural hydraulic lime.

Description

Unilit hydraulic lime mortars are porous and allow the background to breathe and stabilise. They permit natural movement of the façade enabling a traditional building without movement joints. The selection of the sand grading and mix proportions ensure the mortar strength is compatible with the substrate. Natural earth pigments produce the coloured mortars. A comprehensive range of products has been formulated to meet particular requirements. Unilit 20 is an insulating plaster that eradicates condensation and thermal shock on buildings of architectural or historical importance. Its light weight makes it ideal for application in thicknesses from 15-100mm on weak substrates.

Unilit 30 is suitable for salts containment applications such as in cellars and against rising damp.

Building and masonry mortars are supplied in various blends for new building in brick and stone and as a hydrate for blending with local sands, pre-bagged or pre-blended with limestone sand of an appropriate grade.

Unilit grouts and mortars are suitable for stabilisation and consolidation works matching the physical and mechanical properties of the original construction.

Insulated Render

In new construction the demand for a rendered insulated cladding system that is sustainable of source and made from recycled materials has led to the development of the Limetics system using Foamglas®, a 66% recycled cellular glass, and our hydraulic lime mortars. Inert, waterproof,



non-combustible and highly resistant to impact, the system is particularly suited for schools and public buildings. Unilit mortars are also suitable for use with Heraklith BM woodwool slabs for enhanced permeability.

Lime Paints & Finishes

A comprehensive range of finishes is available in a choice of textures and colours to maintain the compatibility and porosity of the background. Finishes include the Corical range of lime paints, lime washes, simulated marble coatings, granular aggregate finishes and roughcasts.

Hydraulic Lime Floor Screeds, Concrete & Bonding Layers

Unilit Natural Hydraulic Lime mortars, bedding layers and lime concrete can be used in new construction, conservation and restoration as general purpose and wearing screeds, bedding and pointing mortars for stone and tiles. Floor slabs and screeds can be laid without expansion or slip joints and will prevent differential movement between the floor screed and the walls of lime built structures.

Application without a DPM will allow the floor to "breathe" with moisture from beneath the screed escaping as a vapour. The control of moisture below the screed prevents salt laden vapours being diverted in to the existing walls. Where stone, paving or tiles are laid over the screed Unilit bedding mortar ensures the performance of the screed is maintained and compatibility with the stone. Lime screeds in conjunction with underfloor heating improve stability and ensure an open pore structure with a low coefficient of thermal expansion, enhancing the storage of heat in comparison with cement screeds.

Telling provide an accredited CPD presentation for specifiers who wish to increase their knowledge in lime mortar technology.

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