UK Supplier Of Lime Mortar, Render and Plaster
**Conservation For The Future**

Limetec is the UK’s leading provider of natural eco-friendly lime mortars, renders and plasters for building and refurbishment projects.

Our natural hydraulic lime mortars are pre-mixed; which are ideal for conservation projects for historic buildings, new homes, and for mainstream commercial applications.

We have partnered up with Baumit to provide a comprehensive range of natural hydraulic lime renders and plasters which use natural, modern lime to create attractive, appealing, eco-efficient buildings.

Limetec is the only UK company able to provide over 800 render and plaster shades and allow you to tint your render or plaster to match your building’s looks precisely.

Our lime renders combined with breathable insulation are energy saving for external and internal wall insulation systems; which can reduce both energy bills and a building’s carbon footprint.

**Lime Mortar**

We pride ourselves on supplying the finest quality materials at competitive prices, backed up by friendly technical advice and after care. We have our own lime based product team specialising in conservation and new builds to provide you with practical advice based upon real world experience.

**Lime Render**

Our Lime Render offers a variety of benefits over cement based products for new builds; as it provides a greater level of breathability which is why conservationist predominantly use it for conservation and renovation buildings.

Lime render is the ideal solution for damp walls as the water is not trapped and able to evaporate. When the water cannot evaporate, this can lead to damaging brickwork, stone masonry and wood. Lime render is robust and malleable to cracking and crazing to other forms of renders on the market.

**Lime Plaster**

Limetec is the UK’s official supplier of Baumit lime plasters which offer high performance coatings for internal walls. Baumit lime plaster is a high quality pre-mixed product for all healthy wall fabrications; which is excellent for renovations and new build.
Lime Mortar

Features
Limetec® hydraulic lime mortars are an environmentally sensitive alternative to cement based mortars and suitable for most applications in building and construction.

Although mortar is traditionally specified by volume, it is widely accepted that batching by weight produces mortar of a greater consistency. Our raw materials and end products are subject to regular quality control procedures and testing. The materials are weighed and mixed under computer controlled conditions with rigorous quality control procedures.

Benefits
There are sound arguments for using lime mortar in new build, relating to both performance and ecological issues. These are summarised below:

- It uses less energy to produce.
- Re-absorbs CO₂ given off during the firing process when it sets.
- It allows masonry to be recycled when the building comes to the end of its life.
- Aesthetically lime has contributed to our townscapes by enhancing the character of the materials used in construction.
- Reduces the need for expansion/movement joints.
- Durable
- Permeable
- Breathable

The construction and use of buildings accounts for over 50% of man-made CO₂ emissions. The use of hydraulic lime mortars can make a significant contribution to reducing this, particularly in relation to future recycling of bricks.

Applications
- Historic buildings and structures
- Conservation and repairs
- New commercial buildings and housing
- Education – new schools and universities

Design Support
Lime has enjoyed a steady revival for repairs to historic buildings and the soft, porous and flexible nature of lime mortars / plasters is now universally recognised as being vital to maintain the traditional breathing performance of old buildings. However, an increasing number of Architects, Engineers, Surveyors and Builders are beginning to realise that lime also has many benefits to offer in new build projects.

There is an increasing amount of published information to assist the designer; also, Limetec offers support throughout the design process to ensure the correct specification and application of product, including:

- Structural design guidance
- Assessment of drawings
- Specifications produced
- Colour options available [colour matching]
- Training presentations and seminars
- Site visits
Limetec® Eminent Hydraulic Mortar

Mix proportion 1 : 2 Limetec® Eminent Hydraulic Mortar will reach HLM3.5 (class III) at 28 days and HLM5 (class II) at 91 days (high resistance to freezing and thawing, high resistance to sulfates).

<table>
<thead>
<tr>
<th>Mortar Class</th>
<th>Lime : sand (by volume)</th>
<th>BS 5628 Mortar Durability Designation</th>
<th>Hydraulic Lime Mix Designation</th>
<th>Typical Compressive Strength (N/mm² @ 91 days)</th>
<th>Mortar Durability Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eminent Hydraulic</td>
<td>1 : 2</td>
<td>(iii) at 28 days (ii) at 91 days</td>
<td>HLM5</td>
<td>5.0</td>
<td>7 - 8</td>
</tr>
</tbody>
</table>

Limetec® Moderate Hydraulic Mortar

Mix proportion 1 : 2 1/4 Limetec® Moderate Hydraulic Mortar will reach HLM2 (class IV) at 28 days and HLM3.5 (class III) at 91 days (high resistance to freezing and thawing, high resistance to sulfates).

Elysium Private House

Limetec hydraulic lime mortar was specified for Elysium, a new-build private house in Butlers Cross, Buckinghamshire.

The building’s impressive façade demanded a choice of mortar that would complement the bricks, which were chosen as they closely resembled the original materials used within the construction of Jacobean manor houses.

The mortar enabled the house to be constructed without expansion joints which would have spoilt the aesthetics.

Colour Tinting Service

Limetec’s unique ability to provide in-house colour tinting ensures the best matching to existing mortars for refurbishment projects to provide freedom to match or contrast new build brick elevations.
Radley College

For a new circular sports pavilion for Radley College in Abingdon, architects JBKS designed the building with a distinctly horizontal emphasis. However, this was nearly destroyed by the requirement to introduce vertical movement joints to the brickwork of the ground floor walls. Due to its circular design, these needed to be at 6 metre intervals. Limetec demonstrated that by using Limetec® hydraulic lime mortar, the integrity of the design could be rescued. Due to its dexterity to accommodate slight movements in the building caused by settlement or thermal shock without cracking, hydraulic lime mortar reduces the need for expansion joints. In addition, Limetec® hydraulic lime mortar has many desirable environmental benefits, creating an elegant and sustainable building.
Lime Render

Features and Benefits
Limetec has partnered with Baumit to provide a comprehensive range that uses natural, modern lime to create attractive, appealing, eco-efficient buildings. All our renders are sustainable building products, with a consistency and reliability that allows their use in conservation projects for historic buildings, for new homes, and for mainstream commercial applications.

In contrast to other building cementitious materials, our modern lime renders are extremely environmentally friendly and enables buildings to breathe – crucial for a healthy internal living environment. Baumit’s tried-and-tested range of lime renders are ISO 9001 certified which also has European Technical Approval (ETA). Baumit is the European leader in lime based breathable renders.

Limetec specifies Baumit because they are compatible with natural materials and provide the sustainability benefits of a breathable and flexible lime-based solution.

Baumit renders are designed for spray or hand application as a two coat system. Suitable substrates:
- Old brick stone or dense masonry
- New brick or masonry
- AAC block
- Render carrier boards
- External wall insulations
- Fire clay blocks
- Straw bales

Baumit have a range of modern lime renders available in a variety of colours and textures.

Baumit also offers a choice of mineral and synthetic decorative finishes; which can rejuvenate existing substrates, or provide a high quality finish for new build applications.

Characteristic
Baumit breathable and flexible hydraulic lime renders is the modern answer for retrofit and new builds. Modern lime renders can be used on light weight blocks, carrier boards, ICF systems, old stone, fire clay blocks and substrates at an affordable price.
William Wake House

Limetec has supplied 10,000m² of natural hydraulic lime render for a stunning rusticated facade on Britain’s largest new classical building for over 50 years at over 20,000 plus square metres – the £46 million William Wake House development in Northampton. Designed by Oxford Architects for St Andrew’s Healthcare, the flagship development consists of 132 en-suite bedrooms and therapy areas located around a central recreational courtyard.

Robert Adam of ADAM Architecture designed the façade of the building in keeping with the original hospital buildings, created with over 6,950 tonnes of stone and 10,000m² of render from Limetec. Main contractor GB Building Solutions appointed Plastering and Drylining Contractors, Allen Atlas, to complete the application of all render works on site.
Over 800 Colour Tints

Our lime renders are available in a wide variety of textures and colours, some exclusive to Limetec thanks to investments in our colour tinting facilities. Also available are a choice of decorative finishes which can rejuvenate existing substrates or provide a high quality finish for new buildings.

Baumit Top Coats (supplied as a dry pre-mix in bags)

<table>
<thead>
<tr>
<th>KRP Coloured Scratch Render</th>
<th>SEP Coloured Textured Render</th>
<th>KWP Coloured Textured Render</th>
<th>RK70N Pure Lime Render</th>
<th>SP64 Salt Retention Render</th>
</tr>
</thead>
<tbody>
<tr>
<td>25kg bag</td>
<td>25kg bag</td>
<td>25kg bag</td>
<td>25kg bag</td>
<td>25kg bag</td>
</tr>
<tr>
<td>Coverage: 1.2kg/mm/m²</td>
<td>Coverage: 1.65kg/mm/m²</td>
<td>Coverage: 7.5kg/mm/m²</td>
<td>Coverage: 1.2kg/mm/m²</td>
<td>Coverage: 1.2kg/mm/m²</td>
</tr>
</tbody>
</table>

Systems Build up examples

RK39 Pure / Lime Basecoat

or

MP69 + Light weight Basecoat

or

MC55W Difficult Substraight Basecoat + Uni Prime + Topcoat

Dense Masonry

Render Carrier Board

Lightweight Masonry
### Baumit Organic Thin Coat Top Coats (supplied as a wet pre-mix in tubs)

<table>
<thead>
<tr>
<th></th>
<th>Nanopor Top</th>
<th>Silicon Top</th>
<th>Fine Top</th>
<th>Creativ Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface</td>
<td>Self-cleaning silicate based top coat. The smooth surface makes it harder for dirt particles to accumulate. Available in 1.5mm, 2mm, 3mm.</td>
<td>Silicon resin based water repellent top coat. Soiling resistant. Available in: 1.5mm, 2mm, 3mm.</td>
<td>Silicon base water repellent top coat. Available in: 1mm</td>
<td>Synthetic paste topcoat. Available in 1mm</td>
</tr>
<tr>
<td>Coverage</td>
<td>25kg tub</td>
<td>25kg tub</td>
<td>25kg tub</td>
<td>25kg tub</td>
</tr>
</tbody>
</table>

### Baumit Base Coats (supplied as a dry pre-mix in bags)

<table>
<thead>
<tr>
<th></th>
<th>RK39</th>
<th>MC55W</th>
<th>DP85</th>
<th>MP69+</th>
<th>SP64</th>
<th>LS62</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Pure lime render for dense masonry substrate</td>
<td>Bonding Adhesive used as a bonding coat and base coat for thin coat renders.</td>
<td>Thermal insulating basecoat</td>
<td>Universal lightweight render for all masonry types</td>
<td>Salt retention base and top coat buff colour with medium finish</td>
<td>Lightweight plinth render which can be used below DPC</td>
</tr>
<tr>
<td>Coverage</td>
<td>35kg bag Coverage: 1.3mm/m²</td>
<td>25kg bag Coverage: 1kg/mm²/m²</td>
<td>9kg bag Coverage: 1.3m² bag at 40mm</td>
<td>25kg bag Coverage: 0.95kg/mm²/m²</td>
<td>25kg bag Coverage: 1.2kg/mm²/m²</td>
<td>35kg bag Coverage: 1.2kg/mm²/m²</td>
</tr>
<tr>
<td>Compressive strength</td>
<td>CS11</td>
<td>CS11</td>
<td>CS11</td>
<td>CS11</td>
<td>CS11</td>
<td>CS11</td>
</tr>
<tr>
<td>Capillary water absorption</td>
<td>W2</td>
<td>W2</td>
<td>W2</td>
<td>W2</td>
<td>W2</td>
<td>W2</td>
</tr>
</tbody>
</table>
Lime Plaster

Internal Plasters

Lime Plaster’s unique benefit is its flexibility. It has the ability to accommodate slight movement in the building without cracking. Once hardened it provides an excellent bond and compressive strength. This gives a significant advantage over cement or gypsum based products.

An additional advantage is its positive environmental credentials that allow buildings to breathe, enabling humidity buffering to reduce condensation risk and hence creating a healthy internal living space.

Baumit Plasters are designed for spray or hand applied applications as a two coat system. We also have a wide range of base coats to suit.
### Baumit Internal Base Coat (supplied as a dry pre-mix in bags)

<table>
<thead>
<tr>
<th>RK38</th>
<th>MC55W</th>
<th>KP36W</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pure lime plaster. Naturally buff coloured with medium finish. Can be used as a top coat.</td>
<td>Bonding adhesive used as a bonding coat or base coat. White in colour with medium finish. Can be used as a top coat.</td>
<td>Natural white lime plaster; for wetrooms and bathrooms</td>
</tr>
<tr>
<td>35kg bag</td>
<td>25kg bag</td>
<td>35kg bag</td>
</tr>
<tr>
<td>Coverage: 1.3kg/mm/m²</td>
<td>Coverage: 1kg/mm/m²</td>
<td>Coverage: 1.3kg/mm/m²</td>
</tr>
<tr>
<td>Compressive strength: CS11</td>
<td>Compressive strength: CS11</td>
<td>Compressive strength: CS11</td>
</tr>
</tbody>
</table>

### Baumit Internal Top Coat (supplied as a dry pre-mix in bags)

<table>
<thead>
<tr>
<th>SEP01</th>
<th>RK70N</th>
<th>KG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Textured finish and through coloured. Available in 1mm grain. For fine finish.</td>
<td>Pure lime top coat. Naturally Buff colour with a fine finish.</td>
<td>Smooth plaster finish. Colour white</td>
</tr>
<tr>
<td>25kg bag</td>
<td>25kg bag</td>
<td>20kg bag</td>
</tr>
<tr>
<td>Coverage: 1.65kg/mm/m²</td>
<td>Coverage: 1.2kg/mm/m²</td>
<td>Coverage: 0.9kg/mm/m²</td>
</tr>
<tr>
<td>Compressive strength: CS11</td>
<td>Compressive strength: CS11</td>
<td>Compressive strength: CS11</td>
</tr>
</tbody>
</table>
System Support
Limetec can help with the specification package. Our technical department can advise on render selection, specification and movement joints. Advice is available through our field sales team, site support technicians and our office based team.

Training and Support
Limetec offers product specific training to operatives at our designated training facilities in Abingdon, Oxfordshire.

Please contact us for more details:
Tel: 01235 434 300
Website: www.limetec.co.uk
Email: sales@limetec.co.uk
LMR Traditional Limited trading as Limetec

Specification Quick Guide

<table>
<thead>
<tr>
<th>Substrate</th>
<th>Basecoat</th>
<th>Mesh</th>
<th>Top Coat</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brick, stone or dense masonry</td>
<td>10mm RK38</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>10mm KP36</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Render Carrier Board</td>
<td>6mm MC55</td>
<td>Full mesh</td>
<td></td>
</tr>
<tr>
<td>Fired clay blocks</td>
<td>10mm RK38</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>10mm KP36</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AAC block</td>
<td>10mm RK38</td>
<td></td>
<td>Option</td>
</tr>
<tr>
<td></td>
<td>10mm KP36</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The Lime Plaster systems offer the following top coats:

- 3mm SEP01
- 1.5mm KG
- 2-3mm RK70N