



# Limetec® Hydraulic Lime Mortars

## Product Datasheet for Limepoint Mortars

### 1. Introduction

Limetec® Hydraulic Limepoint Mortars are factory produced pre-mixed dry mortars using dried sands and hydraulic lime. The dry mortar is available in 25kg bags

### 2. Suitable Uses

Limetec® Hydraulic Limepoint Mortars are suitable for pointing the mortar joints in brick slip cladding systems and repointing conventional walls by mortar gun or bag injection

### 3. Composition

Limetec® Hydraulic Lime Mortars are manufactured using natural hydraulic limes in grades of 5 or 3.5 or 2 (NHL), which are produced by burning argillaceous or siliceous limestone, high calcium lime (CL 90) and specially graded sand and aggregates.

### 4. Authority

Limetec® Hydraulic Lime Mortars comply with the durability requirements of BS5628: Part 3:2001. Mortar strengths are measured at 91 days as opposed to 28 days, as lime mortars gain strength more gradually compared to Portland cement based mortars.

Materials used conform to the following standards:

Sand BS EN 13139: 2002  
Natural Hydraulic Lime (NHL) BS EN 459: Part 1: 2001  
Calcium Lime (CL90) BS EN 459: Part 1: 2001 Pigments  
BS EN 12874

Admixtures, where used, do not contain calcium chloride.

### 5. General Advantages

Limetec® Hydraulic Limepoint Mortars offer several usage and mix advantages over cement and site mixed lime mortars:

- Used with mortar gun or bag injection
- Uses less energy to produce than cement.
- Re-absorbs CO<sub>2</sub> when it cures and sets.
- Allows masonry to be recycled at end of life
- Provides a breathable form of construction.
- Provides a water shedding barrier for walls.
- Aesthetically enhances masonry.
- Consistent mix proportions.
- Consistent quality and colour of mortar.
- Correct choice of sands.
- Mortars can be re-worked for up to 12 hours.

### 6. Manufacture

Limetec® Hydraulic Limepoint Mortars are manufactured using factory batching techniques.

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. Although mortar is traditionally specified by volume, it is generally accepted that batching by weight produces mortar of a greater consistency.

***NB: Our mortar is manufactured for us by Tarmac Building Products. They mix our lime with their local aggregate which has a pink tinge. They then add pigments to give the mortar the desired colour.***

***When water is first added to the mortar the pinkness of the aggregate shows through. As the mortar dries and cures the pinkness is replaced by the colour of the pigment and the true colour becomes dominant. This can take a little while.***



**Mixing the mortar thoroughly is very important. You should use a free fall mixer and mix the mortar dry first to ensure even distribution of the pigment. After adding water you should then mix for at least 10 minutes to allow the lime to absorb the moisture.**

## 7. Storage

If stored under cover in dry conditions, has a shelf life of up to 18 months.

## 8. Quality Assurance

The product constantly undergoes third party and in-house monitoring using tested and certified quality management systems conforming to the current international standard EN ISO 9001 and the environment standard EN ISO 14001

## 9. Health and Safety

See separate Health and Safety sheet

## 10. Mortar Mix Proportions

### Limetec® Moderately Hydraulic Mortar

Mix proportion 1:2.25 Limetec® Moderate Hydraulic Mortar will reach HLM2.0 (class IV) at 28 days and HLM2.5 (class III) at 91 days (good/high resistance to freezing & thawing, high resistance to sulphates).

Mortar Class	Lime : sand (vol/vol)	BS 5628 Mortar Durability Designation	Hydraulic Lime Mix Designation	Typical Compressive Strength (N/mm <sup>2</sup> @ 91 days)	Mortar Durability Class
Moderately hydraulic	1 : 2.25	(iv) at 28 days (iii) at 91 days	HLM2.5	2.5 - 3	5-6

## 11. Performance

Limetec® Hydraulic Limepoint Mortars are more flexible than Portland cement based mortars, which means that expansion joints are not necessary in many circumstances.

Limetec® Hydraulic Limepoint Mortars offer good vapour permeability, which enables the building to “breathe”.

Limetec® Hydraulic Limepoint Mortars are formulated to meet the requirements of compressive strength and durability for masonry

## 12. Coverage

For re-pointing of brickwork a 25 kg bag will give 2.8m<sup>2</sup> of 10mm joint.

## 13. Sitework

See separate Limetec® Method Sheets for Repointing with Limetec® Hydraulic Limepoint Mortars.

When using 25kg bags or 1T bulk bags, mixing can be undertaken using a conventional drum mixer. The addition of water to the mix should be controlled to ensure that the mix does not become saturated but wet enough to extrude.



Under certain circumstances results can be improved by re-mixing the mortar after allowing it to stand for 30 minutes up to 12 hours after the initial mixing process.

**Mortar should not be used if the temperature is at 5°C and falling or 3°C and rising.** However, if adequate protection and heat source can be provided and maintained in the working area, it is possible to progress work with caution outside of these parameters. With adequate screening of the work face (should budget allow) warm air heating can be introduced to maintain consistent temperature on the work face. Allow some ventilation to prevent any rapid drying of the surface.

**Mortar should not be used if the temperature is at 5°C and falling.** Attention must be given to the weather forecast before and for at for at least 24 hours after laying masonry.

If, after application, the temperature is expected to fall below 5 °C some form of protection such as dry layers of hessian or bubble pack must be given to the area of work. Without adequate protection there is a risk of frost damage during the curing process. Protect from rain and snow with polythene sheets or tarpaulin or similar.

**Work should not be carried out if the temperature reaches 30°C.** In warm weather it is advisable to damp down the brick/stone to avoid the substrate taking moisture from the mortar [**see working with Lime Mortar in Winter Conditions or check with Limetec for advice**].