
HYDRAULIC LIME MORTAR

PRODUCT SHEET

1. IDENTIFICATION

1.1 Introduction

LimeRight mortars are produced using dried sands and hydraulic lime.

The dry mortar is available in 25kg bags or bulk bags.

LimeRight mortars are suitable for use in blocklaying, bricklaying, stonemasonry and as a backing or final coat render/plaster.

LimeRight mortars are manufactured using natural hydraulic limes (NHL) which are produced by burning argillaceous or siliceous limestone.

1.2 Authority

LimeRight 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

Water added on site should be clean and free from impurities.

1.3 General Advantages

LimeRight mortars offer several mix advantages:

- Consistent mix proportions.
- Consistent quality of mortar.
- Correct choice of sands.
- Mortars can be re-worked for up to 24 hours.
- Deterrent against pilfering and reduction in wastage.
- Productivity savings as there is no need to allocate one individual for mixing.

2. DESCRIPTION

2.1 Manufacture

LimeRight 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 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.

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2.2 Mortar Mix Proportions

LimeRight 500 Hydraulic Mortar

This is known as an **eminent** mix with the following proportion 1:2. LimeRight 500 Hydraulic Mortar will reach HLM2.5 (class III) at 28 days and HLM5 (class II) at 91 days (high resistance to freezing & thawing, high resistance to sulphates).

Mortar class	Lime : sand (vol/ vol)	BS 5628 Mortar mix Durability Designation	Hydraulic lime Mix designation	Typical Compressive strength (N/mm ² @ 91 days)	Mortar Durability Class
Eminent hydraulic	1 : 2	(iv) at 28 days (iii) at 91 days	HLM2.5	2.5	5-6

LimeRight 350 Hydraulic Mortar

This is known as a **moderate** mix with the following proportion 1:2¼. LimeRight 350 Hydraulic Mortar will reach HLM1 (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 mix Durability Designation	Hydraulic lime Mix designation	Typical Compressive strength (N/mm ² @ 91 days)	Mortar Durability Class
Moderately hydraulic	1 : 2¼	(iv) at 28 days (iii) at 91 days	HLM2.5	2.5	5-6

LimeRight 200 Hydraulic Mortar

This is known as a **feeble** mix with the following proportion 1:2¾. LimeRight 200 Hydraulic Mortar will reach HLM0.5 (class V) at 28 days and HLM1 (class IV) at 91 days (poor resistance to freezing & thawing, good resistance to sulphates).

Mortar class	Lime : sand (vol/ vol)	BS 5628 Mortar mix Durability Designation	Hydraulic lime Mix designation	Typical Compressive strength (N/mm ² @ 91 days)	Mortar Durability Class
Feeble hydraulic	1 : 2¾	(v) at 28 days (iv) at 91 days	HLM1	1	3-4

The above is meant as a guide only; if you wish to discuss a specific application in further depth please call our sales office.

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2.3 Performance

LimeRight mortars are more flexible than Portland cement based mortars, which means that expansion joints are not necessary in many circumstances.

LimeRight mortars offer good vapour permeability, which enables the building to “breathe”.

LimeRight mortars are formulated to meet the requirements of compressive strength and durability.

2.4 Coverage

LimeRight mortars can be used for scratch coat and floating coat plasters and renders and have a coverage rate of 1.25m² per 25kg bag (50m² per tonne) @ 9mm thick.

For brick laying a 25kg bag will lay 25 bricks with a 10mm joint and a single brick skin, (1000 bricks per tonne of mortar)

3. SITEWORK

LimeRight mortars can be delivered to site in 25kg bags, ½ or 1 ton IBC's.

When using 25kg 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.

For best results add the water sparingly, waiting for the water to thoroughly disperse throughout the mix before adding more. Once the desired consistency is reached continue mixing for a further 20 minutes.