

# Hydraulic Lime Mortars

## Product Datasheet

## EuroMix Dry Mortar System

### 1. Identification

#### 1.1 Introduction

EuroMix Hydraulic Lime Mortars are factory-produced mortars consisting of dried sands, natural hydraulic lime and other additives.

The dry mortar is transported to the building site in bulk silos. Final mixing with water to the required consistency is carried out automatically. If required, the dry material may be conveyed to the workplace by means of compressed air before mixing.

EuroMix Hydraulic Lime Mortars are suitable for use in bricklaying, blocklaying and stone masonry and are available in traditional hydraulic lime mortar designations or mix type as specified. Coloured mortars are also available.

#### 1.2 Authority

EuroMix Hydraulic Lime Mortars comply with the durability requirements of BS 5628: Part 3: 2001. Due to the more gradual strength development of hydraulic lime in comparison with Portland cement, the mortar standard strength values are measured at 91 days.

Materials used comply with the following standards:

Sand	BS EN 13139: 2002
Natural hydraulic lime	BS EN 459: Part 1: 2001
Calcium lime	BS EN 459: Part 1: 2001
Pigments	BS EN 12878: 1999

Admixtures, where used, do not contain calcium chloride. Water added on site should be clean and free from impurities.

EuroMix Hydraulic Lime Mortars should be used in accordance with the Foresight Best Practice Guide (published by Donhead, 2003) and the general principles for mortar set out in BS 5628: Part 3: 2001.

#### 1.3 General Advantages

EuroMix Hydraulic Lime Mortars offer several advantages over alternative methods of producing hydraulic lime mortars:

- Mortar is mixed only as it is needed.
- High efficiency mixing ensures excellent dispersion.
- Constant supply of mortar on site.
- Quality assured materials are used.
- Consistent mix proportions.

### 2. Description

#### 2.1 Manufacture

EuroMix Hydraulic Lime Mortars are manufactured at a number of production plants. All raw materials and end products are subject to regular quality control procedures and testing.

Dried sand, specially selected for hydraulic lime mortar, and other materials are weighed and mixed under computer control with rigorous quality control procedures.

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

#### 2.2 Mortar Mix Proportions

EuroMix Hydraulic Lime Mortars can be supplied in any mix design to suit the requirements of the specifier, including designations conforming to the durability requirements in BS 5628-3 as set out in the table below:

Mortar Class	Mortar Mix Durability Designation	Hydraulic lime Mix Designation	Typical Compressive strength (N/mm <sup>2</sup> @ 91days)
Eminently hydraulic	(ii)	HLM5	5.0
Moderately hydraulic	(iii)	HLM2.5	2.5
Feebly hydraulic	(iv)	HLM1	1.0

#### 2.3 Mortar Applications

Eminently Hydraulic Lime Mortar - for use where a higher level of durability is required, e.g. wall copings, chimneys and masonry exposed to severe weather.

Moderately Hydraulic Lime Mortar - for use in most normal applications, e.g. cavity brickwork, blockwork and stonework.

Feebly Hydraulic Lime Mortar - for use with softer bricks and stone, solid wall construction and conservation masonry.

#### 2.4 Colour

EuroMix Hydraulic Lime Mortars are available in an extensive range of colours. Copies of our Colour Shade Guide and samples are available on request.



# EuroMix

### 3. Performance

Hydraulic Lime Mortar properties greatly influence the end product - strength fit for purpose, durable, water-tight and breathable masonry construction.

Desirable properties of mortar whilst plastic include workability, water retention and consistent rate of hardening.

Hardened mortar must have adequate bond, compressive strength, durability and uniformity of appearance.

EuroMix Hydraulic Lime Mortar mix designs have been formulated to give optimum compliance with these requirements. Furthermore, the EuroMix Dry Mortar System ensures that site operations result in the desired end product.

### 4. Sitework

EuroMix Hydraulic Lime Mortars are delivered to site in a Silo Mixing Station complete with all necessary mixing equipment.

The EuroMix Silo Mixing Station should be placed on a firm level base measuring at least 3m x 3m.

After connecting power and water supplies, the system is ready for use. Once the water flow rate is adjusted to give mortar of the required workability, it is simply a question of push-button operation to produce consistently high quality mortar whenever it is needed.

The Silo Mixing station will discharge the mortar directly into a skip.

Alternatively a Remote Mixing Station can be supplied. This enables dry material to be conveyed directly to where it is needed before it is mixed with water.

This equipment can be used by any site operative once they have been given basic site instruction in its use by a EuroMix Service Technician.

### 5. Prices and Conditions of Sale

Our Sales Office will be pleased to provide quotations for specific projects. All quotations are subject to our Conditions of Sale, a copy of which is available on request.

### 6. Supply

EuroMix Hydraulic Lime Mortars are available throughout the market area of each plant.

Silos are delivered with up to 16 tonnes of dry mortar and may be refilled by bulk tanker.

EuroMix Hydraulic Lime Mortars may also be delivered in mini silos, pre-packed 25kg bags or 1 tonne sacks.

### 7. Health & Safety

For health and safety information – see Material Safety Datasheet.

### 8. Technical Services

#### 8.1 On-site Support

Fully trained Service Technicians are available at all times to provide on-site support to users of the EuroMix Dry Mortar System.

#### 8.2 Mortar Testing

Where site testing of mortar is required, strict adherence to recommended testing procedures is essential. Contact our Technical Advisory Service for further advice or assistance.

#### 8.3 Advisory Service

Our Technical Advisory Service is available to give expert advice on the specification or use of the EuroMix Mortar System.



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