

Ashlar hydraulic lime mortar – fine joints

1.0 Identification

1.1 Introduction

EcoRight ashlar mortars are produced using dried sands, natural hydraulic lime, calcium lime and natural pigments.

The dry mortar is available in bulk IBC's or silo options.

EcoRight ashlar mortars are suitable for fine joint pointing for joint widths 2-5mm in brick & stonework.

1.2 Authority

EcoRight ashlar mortars comply with the durability requirements of BS EN 5628-3:2005. 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: 2013 – Aggregates for Mortar
Natural Hydraulic Lime (NHL)	BS EN 459: Part 1: 2015 – Building Lime
Calcium Lime	BS EN 459: Part 1: 2015 – Building Lime
Pigments	BS EN 12878: 2014

Water added on site should be clean and free from impurities. (Admixtures should not be used)

1.3 General Advantages

EcoRight ashlar mortars offer several mix advantages:

- Consistent mix proportions and quality of mortar.
- Aesthetically enhances the character of brickwork and stonework.
- Available as Portland Stone, Bathstone & Charcoal options
- Correct choice of sands.
- Improved workability, mortars can be re-worked for up to 24 hours.

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- Reduction in wastage, savings on material cost.
- Improved productivity, savings on labour cost

2.0 Description

2.1 Manufacture

EcoRight ashlar mortars are manufactured using factory batching techniques.

Raw materials and finished products are subject to routine quality control procedures and testing throughout the weighing and mixing process.

Whilst mortar is traditionally specified by volume, batching by weight produces mortar of a greater consistency.

2.2 Mortar Mix Proportions

EcoRight Ashlar Hydraulic Mortar

Often used where a higher level of durability is required and in areas subject to potential severe weathering such as chimneys, copings as well as areas below dpc.

Mortar class	Lime: sand By volume	BS 5628 Mortar mix Durability Designation	Hydraulic lime Mix designation	Typical Compressive strength (N/mm ² @ 91 days)	Mortar Durability Class
M5	1 : 2	(iv) at 28 days (iii) at 91 days	HLM 5	5.0	7-8

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

2.4 Performance

EcoRight ashlar mortars are more flexible than Portland cement-based mortars, reducing the need for movement joints in most cases. (See EcoRight Design Guide for further information)

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EcoRight mortars are formulated to meet the requirements of compressive strength and durability. Lime based mortars create a stronger bond in brick and blockwork

3.0 Site work

EcoRight Ashlar mortars can be delivered to site in 1 tonne IBC's. Silo options may also be available. **EcoRight Ashlar mortars** can be stored for up to 18 months if kept dry and protected from adverse weather and damp conditions.

When using IBC's, 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.

It is possible to lay brickwork in lifts of 1.5metres per day.

Note: Work should not be carried out if the temperature is below 5°C 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 high risk of frost damage during the lime curing process.

Protect from rain and snow with polythene sheets or tarpaulin or similar.

4.0 Health & Safety

Refer to health and safety data sheet for hydraulic lime mortar.

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