

EcoRight “MARINE” HYDRAULIC LIME MORTAR

1.0 Identification

1.1 Introduction

EcoRight marine mortar is produced using dried sands, natural hydraulic lime (NHL5) blended with prompt natural cement.

The dry mortar is available in 25kg bags or bulk IBC's and is manufactured to order and is available in “natural” colour, no pigments are used.

EcoRight Marine mortar is suitable for use in bricklaying or pointing in a marine environment where the benefits of hydraulic lime are achieved but with a rapid set time.

1.2 Authority

EcoRight mortars comply with the durability requirements of BS EN 5628: Part 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. Also, BS EN 998-1: 2016 specification for mortar for masonry.

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
Prompt Natural Cement	NF P 15-314: 1993 [French Standard]

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

1.3 General Advantages

EcoRight mortars offer several mix advantages:

- Consistent mix proportions and quality of mortar.
- Aesthetically enhances the character of brickwork.
- Correct choice of sands.
- Improved workability, mortars can be re-worked for up to 24 hours.
- Reduction in wastage, savings on material cost.
- Improved productivity, savings on labour cost

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2.0 Description

2.1 Manufacture

EcoRight 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 M5 Hydraulic Mortar

Designated as M5 with the following proportion 1:2 lime: sand. **EcoRight M5** Hydraulic Lime Mortar will reach HLM4.5 (class II) at 28 days.

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	(iii) at 28 days (ii) 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 mortars are more flexible than Portland cement-based mortars, which means that expansion joints are not necessary in many circumstances. (See EcoRight Design Guide for further information)

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

2.5 Coverage

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)

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3.0 Site work

EcoRight mortars can be stored for up to 18 months if kept dry and protected from adverse weather and damp conditions.

When using 25kg bags or 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.

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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