

## EcoPoint HYDRAULIC LIME MORTARS for pointing with gun injection tools

### 1.0 Identification

#### 1.1 Introduction

**EcoPoint** can be produced in a variety of strengths and earth tone colours using dried sands, natural hydraulic lime, calcium lime, natural pigments and specialist water retention admixtures.

The dry mortar is available pre-mixed in 25kg bags, bulk IBC's or silo options. (just add water mix and serve)

**EcoPoint** is suitable for use in in standard re-pointing and primarily pointing with grout bag or gun injection for brick cladding panels.

#### 1.2 Authority

**EcoPoint 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	BS EN 459: Part 1: 2001
Pigments	BS EN 12874
Admixtures	BS EN 394

Water added on site should be clean and free from impurities. (no other admixtures should be added)

#### 1.3 General Advantages

**EcoPoint** offers several advantages:

- Consistent formulation for application by gun or grout bag injection.
- Suitable for most re-point applications and pointing brick and stone cladding panel systems
- Pointing guns are available from our Old House Store tel: 01189 469 146
- Improved aesthetics through correct choice of sands.
- Choice of colours (bespoke colours available to order)
- Reduction in wastage, savings on material cost.
- Improved productivity, savings on labour cost

Registered Address: Unit 2 Paddock Road Industrial Estate, Caversham, Reading, Berkshire, RG4 5BY  
Tel: 01189 469 153 (head office) +44 (0)845 873 3888 (orders) 01189 946 9176 (fax). Company Reg no: 6561874.

EcoRight Ltd is a member of **The Building Limes Forum**, a charitable organisation which works Internationally to promote research and education and to encourage expertise and understanding in the use of building limes.



## 2.0 Description

### 2.1 Manufacture

**EcoPoint** is 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 lime mortar is traditionally specified by volume, batching by weight produces mortar of a greater consistency.

### 2.2 Mortar Mix Proportions

#### EcoPoint M5 Hydraulic Mortar

This is often referred to as an **eminent** mix but now designated as M5 with the following proportion 1:2 lime: sand. **EcoPoint M5** Hydraulic Lime Mortar will reach HLM2.5 (class III) at 28 days and HLM5 (class II) at 91 days (high resistance to freezing & thawing and a high resistance to sulphates).

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 <sup>2</sup> @ 91 days)	Mortar Durability Class
Eminent hydraulic M5	1 : 2	(iii) at 28 days (ii) at 91 days	HLM 5	5.0	7-8

#### EcoPoint M2.5 Hydraulic Mortar

This is often referred to as a **moderate** mix but now designated as M2.5 with the following proportion 1:2¼. **EcoPoint M2.5** Hydraulic Lime 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).

Ideal for normal applications in brick, block & stone masonry in cavity wall construction

Mortar class	Lime : sand By volume	BS 5628 Mortar mix Durability Designation	Hydraulic lime Mix designation	Typical Compressive strength (N/mm <sup>2</sup> @ 91 days)	Mortar Durability Class
Moderately hydraulic M2.5	1 : 2¼	(iv) at 28 days (iii) at 91 days	HLM 2.5	2.5	5-6

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

Registered Address: Unit 2 Paddock Road Industrial Estate, Caversham, Reading, Berkshire, RG4 5BY  
Tel: 01189 469 153 (head office) +44 (0)845 873 3888 (orders) 01189 946 9176 (fax). Company Reg no: 6561874.

EcoRight Ltd is a member of **The Building Limes Forum**, a charitable organisation which works Internationally to promote research and education and to encourage expertise and understanding in the use of building limes.



## 2.4 Performance

**EcoPoint mortars** is more flexible than Portland cement based mortars.

**EcoPoint mortars** offer good vapour permeability.

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

## 2.5 Coverage

**EcoPoint** has a coverage rate of 2.8 m<sup>2</sup> per 25kg bag (115m<sup>2</sup> per tonne) based on 10mm joint.

Note: minimum joint depth for re-pointing = 2 x joint width

Pointing coverage for brickslips is 4 m<sup>2</sup> per 25kg bag (160m<sup>2</sup> per tonne).

## 3.0 Site work

**EcoPoint** can be delivered to site in 25kg bags or 1 ton IBC's. Silo options are also available.

**EcoPoint** 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.

Registered Address: Unit 2 Paddock Road Industrial Estate, Caversham, Reading, Berkshire, RG4 5BY  
Tel: 01189 469 153 (head office) +44 (0)845 873 3888 (orders) 01189 946 9176 (fax). Company Reg no: 6561874.

EcoRight Ltd is a member of **The Building Limes Forum**, a charitable organisation which works Internationally to promote research and education and to encourage expertise and understanding in the use of building limes.

