

## MR1 Monocouche One Coat Render



### Technical Data

**Pack Size**  
25kg Bag

**Finishing Tool**  
Scrape Float

**Substrate Primer**  
S10, G10 or K11 (Dependent on substrate)

**Suitable Substrate**  
Concrete, Clay, Lightweight Block and Brick

**Pot Life**  
1 Hour +

**Water Demand**  
Approx. 4.5 - 5 litres per 25kg bag

**Ready to Finish**  
3-16 hours @ 5°C - 25°C

**Humidity Requirement**  
Less than 85% for a minimum of 24 hours

**Coverage**  
Approx. 1.6kg per mm / per m<sup>2</sup>

**Application Temperature**  
5°C - 25°C for a minimum of 24 hours



Water Repellent



Breathable



High Adhesion



Through Coloured for Low Maintenance



Suitable for Hand or Spray Application



Highly Polymer Modified



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### Ecorend Monocouche One Coat Render

One coat rendering mortar (OC) for external use

EN 998-1:2010

Reaction to fire	A
Dry bulk density	1650 kg/m <sup>3</sup>
Compressive strength	CS IV
Adhesion	≥ 2.0 N/mm <sup>2</sup> , (FP) B
Capillary water absorption	W1
Water vapour permeability coefficient	μ ≤ 15
Thermal conductivity	(λ10, dry) 0.82 W/mK (tab. mean value; P = 50%)

### DESCRIPTION

Ecorend MR1 Monocouche One Coat Render is a high performance, cement based, through coloured scratch render. Developed to have excellent water repellence, breathability and adhesion, it is also easy to apply by hand or by spray, in one coat. The product's through colour characteristics ensure a low maintenance, attractive, stone looking finish.

### PREPARATION

All surfaces must be sound, clean, dry and free of any material which may impair adhesion. Do not apply to shiny surfaces. Scaffolding must be independently tied to allow for uninterrupted application. Any faults in the structure, particularly those which may lead to moisture penetration, must be rectified. Mask around the areas where material is to be applied. Masking tape must be removed before the material has dried out. Beads and expansion joints should be included as required by the substrate and BS standards and carried through all applied materials.

### PRIMING

Controlling the suction of the substrate is essential to ensure that the render dries at an even rate, resulting in complete colour consistency and optimum product performance.

Apply clean water to control suction as required or, for complete suction control, apply a primer as follows:

#### New Concrete Block

- S10 Bonding Primer - Apply 1 light coat
- G10 Multi-Surface Primer - Apply 1 coat
- K11 Key Coat Primer - Apply 3mm brush key

#### All Types of New and Old Block and Brickwork

- G10 Multi-Surface Primer - Apply 1-2 coats
- K11 Key Coat Primer - Apply 3mm brush key

### MIXING

Ecorend MR1 Monocouche One Coat Render should be mixed with clean water at a rate of approximately 4.5 - 5.0 litres per 25kg bag using a suitable paddle or pan mixer. Mix for 2 minutes, allow to stand for 2 minutes then re-mix. This process allows the additives to dissolve and activate.

### APPLICATION

To avoid dampness and discolouration rendering should be avoided below DPC or within 150mm of ground level. Ecorend MR1 Monocouche One Coat Render should be applied in a one-coat 2 pass operation to 17mm and finished to 15mm thick.

The 1st pass should be applied to the primed substrate with a stainless steel trowel or spray pump, and for ease of application a serrated feather edge and finishing spatula will help. Apply the 1st pass to approx. 8mm thick with fibre-reinforcing mesh included in the 1st pass ensuring that the mesh is overlapped 100mm at the mesh joints. Additional fibre-reinforcing mesh stress patches of 500 x 500 mm should be added at all openings i.e. windows and doors, and also window reveals for additional substrate stress protection. The 2nd pass should then be applied to approx. 9mm thick, wet on wet to the 1st pass and levelled flat. Then leave the render to harden but not fully set for between 3-16 hours dependent on the temperature. This will allow the surface to harden, ready to finish once you can imprint your nail but not your thumb print, at this point the render is ready to scrape.

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Scraping should take place using a scraping float, scrape the surface in a tight circular action. It is essential that this operation is done carefully and evenly, the objective is to only remove 2mm from the complete surface. During the operation of scraping the render, use a straight edge to ensure any high spots are evened out.

Immediately following the scraping process (preferably use a second man for this process), use a light soft brush to remove all loose material. Carrying out this process may highlight any un-scraped areas. Un-scraped areas must be scraped immediately to avoid colour variation that will occur if scraped when the product has started to set. Small blemishes or holes can be repaired at this stage by using material freshly scraped from the wall and pointed in. Once the product is fully scraped the minimum finish thickness should be 15mm.

Specification Clauses relating to this product can be found in NBS Section M20 Rendering, BS 5262 Code of Practice for External Rendering and BS 8000-10 must be followed. **Note:** Ecorend MR1 Monocouche One Coat Render may stiffen on standing. Re-mix the product to regain a workable consistency but do not add any more water.

### STORAGE

When stored unopened in a dry place at temperatures above 5°C, shelf life is 12 months from date of manufacture.

### TOOL CLEANING

All equipment must be washed with clean water immediately after use. Waste material should not be emptied into drainage systems.

### HEALTH & SAFETY INSTRUCTIONS

For further information, please request the material safety data sheet for this product.

### IMPORTANT INFORMATION

The weather conditions for application and drying are critical. Do not apply if any of the following conditions are likely to arise during - or in the first 24 hours following application:

- If frost is forecast, or in wet conditions
- When Relative Humidity is above 85%
- In temperatures below +5°C or above +25°C
- If the elevation is in direct sunlight
- If the substrate is hot (at or above 30°C) or below +5°C

Coverage rates are approx. and do not take into account wastage and uneven substrates

The render must be protected against heavy rain, direct sun or wind in the first 24 hours after application. Sheeting the façade or the scaffold is advised to protect against this. For this particular product, if these parameters are not met, the product is at risk of efflorescence, colour variation, cracking and potential failure. Always ensure that the same batch numbers when possible are used up to natural breaks in the elevation – i.e. down pipes, expansion joints and corners as batch to batch colour variation is possible due to the fact natural raw materials are used. It is the responsibility of the application contractor to manage and record the weather conditions during application and curing of the product.

To the best of our knowledge and belief, this information is true and accurate. However, as conditions of use of the product and the expertise of any labour involved are beyond our control, the end user must satisfy themselves by prior testing that the product is suitable for their specific application if no spec has been provided for the project in hand. No responsibility can be accepted, nor any warranty given by our Representatives, Agents or Distributors. Products are sold subject to our Standard Conditions of Sale and the end user should ensure that they have consulted our latest literature.