# Eco-render range:
# Ultra: Natural

16/5/08

**Lime green Eco-renders are a range of renders /plasters designed for renovation and new build. The range is based on St Astier Natural Hydraulic Limes and recycled aggregates.**

## General Information

**Ultra : Natural is thermally insulating, breathable, elastic and salt resistant**.

**Ultra: Natural** does **not** contain plastics such as PVA or acrylic, cement or PFA or any other materials containing toxins or which reduce breathability.

**Ultra: Natural** can be applied in coats of up to 30mm thick to save time and money.

**Ultra: Natural** is ideal for most old buildings or newer eco-friendly construction.

## Availability

30kg bags, 40 per pallet shrink wrapped

## Coverage

Approx 0.9 kg per mm of thickness over 1m². One 30kg bag will cover approx. 3.3m² at 10mm thick. This does not include any allowance for wastage.

## Mixing

Add the whole bag of pre-mix into drum or forced action mixer carefully avoiding creating excessive dust. Mix with clean water: 6-7 to litres of water to each 30 kg sack depending on the temperature and substrate. Mix in either drum mixer for 10 min or with a mechanical whisk for 2-3mins stand for 10 minutes then mix once more before application.

## Surface Preparation

Remove dust, surface contaminants and loose or friable existing render/plaster. Where necessary consolidate. Using PVA is not normally appropriate. Ensure Masonry is not waterproofed or painted.

## Application Guidelines

The number of coats is dependent on the surface to which the render is applied, the exposure of the building and the finish required.

**Typical Minimum Thickness:**

- **2 Coat Render:** 16mm
- **3 Coat Render:** 20mm

**Temperatures**: above 5°C and below 30°C.

**Reworking:** 8 hours

**Further coats:** after 2 to 7 days, once the coat has stiffened / hardened, but is still 'green'.

**Curing**: cure each coat (see below) before further work.

**1) Backing Coats**

Stipple Coat & Dubbing coats (optional)

Apply **Lime Green Natural Stipple** coat on dense impervious backgrounds (see datasheet). Dub out deep areas with **Ultra: Natural** and key**.**

Base Coats

Apply a first coat of **Ultra: Natural** between 10 to 20 mm thick directly to substrate, or to stipple or dubbing coat if they have been applied. Each coat must be scratched while green to give a good mechanical key before further coats are applied. If the substrate is too dry, dampen down the surface prior to coating. A second, intermediate coat may be applied after the first has adequately cured. Ensure it is thinner than the first.

N.B. For application to lath, please refer to Lime Green.


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**2) Finishing Coat**

Apply ***Lime green Eco-render Natural Finish*** or ***St Astier Ecomortar*** (in 24 colours), once the backing coats have had sufficient time to cure.

Finishing coats should be applied in a uniform 3-5mm thick layer with a laying trowel.

Avoid over working

Do not apply water to the surface of the finishing coat.

Finish with wooden float and / or sponge.

## Curing

Prevent all coats from drying out too rapidly.

Lightly spray each coat with water if it is hot or the product is drying too quickly.

Protect from adverse conditions such as frost, rain etc.

Adequate curing of a final decorative coat should be more stringent, ideally using a fully sheeted scaffold when outside.

Performance data:

| Test | Result | Standard |
|---|---|---|
| Flexural Strength @ 28 days M/mm² | 0.6 | EN1015-11 |
| Modulus of elasticity @ 28 days Mpa | 4500 | |
| Compressive strength @ 28 days N/mm² | >1 (CSI) | EN1015-11 |
| Compressive strength @ 90 days N/mm² | >2 | |
| Capillary water absorption kg/m².min | W1 | EN1015-18 |
| Bulk Density (Dry) grams / litre | 1000 | EN1015-10 |
| Thermal Conductivity w/m.K | T2 0.2 | EN1015 |
| Soluble salts content | 0.21% | |

## Health and safety

**Risk Phrases**

R36/37/38 Irritating to eyes, respiratory system and skin

R66 Repeated exposure may cause skin dryness or cracking

**Safety phrases**

S22 Do not breathe dust

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S24/25 Avoid contact with skin and eyes

S36 Wear suitable protective clothing

This is not a specification. Trials should be undertaken on old surfaces & backgrounds to ensure compatibility. Lime plasters do not set or perform like gypsum or cement based materials.


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