

### Eco-render range: **Natural Finish** Provisional

12/7/2006

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

**Natural Finish** is extremely breathable, elastic and salt resistant fine finishing coat.

**Natural Finish** does **not** contain plastics such as PVA or acrylic, nor cement, PFA or any other materials that reduce breathability or contain toxins.

**Natural Finish** is designed to skim over *Ultra: Natural* or *Duro: Natural*.

**Natural Finish** is ideal for most historic buildings or modern Eco-friendly building.

#### Availability

22 kg sacks, 46 per pallet shrink wrapped, total weight 1012 kg.

#### Coverage

Approx 1.4kg per mm of thickness over 1m<sup>2</sup>. A 22kg bag will cover approx. 3½ - 4 m<sup>2</sup> at 4mm 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: add only 8 litres of clean water per bag. Mix for at least 10 minutes using drum mixer or use a mechanical whisk for 3 minutes. Stand for 10 minutes then mix again for 3 minutes adding further water, if required, to achieve workable consistency.

#### Surface Preparation

Scratch existing basecoat of **Ultra: Natural** or **Duro: Natural** with a "nail" or "devil" float once the basecoat has hardened, but is still 'green'.

Scratch in a tight spiral action making light grooves. Dampen surface with mist spray.

#### Application Guidelines

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

**Reworking:** 12 hours

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

Apply **Natural Finish** once the backing coats have had sufficient time to cure.

**Natural Finish** should be applied to a straight, flat, dampened surface in a number of passes each approximately 1-2mm thick, with a laying trowel, upto a maximum of 4mm. Each pass or layer of Natural Finish plaster should be applied while the first pass of Natural Finish is still damp but has had time to "pull in".

Avoid over working. Use only a light mist spray if applying 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.

## Product Data

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

### **Painting**

Approx. average of 1 days drying per mm of plaster/ render thickness.

Breathable paints should be used for maximum benefit: e.g. St Astier Lime paints, Aglaia, Beeck's mineral paints or Lime green Limewash.

Estimated Performance data:

Test	Result	Standard
Water Vapour Perm. Coefficient ( $\mu$ )		EN1015-19
Flexural Strength @ 28 days $\text{M/mm}^2$	0.9	EN1015-11
Modulus of elasticity @ 28 days Mpa	8000	
Compressive strength @ 28 days $\text{N/mm}^2$	CSII	EN1015-11
Capillary water absorption $\text{kg/m}^2.\text{min}$	W1	EN1015-18
Adhesion $\text{N/mm}^2$		EN1015-12
Bulk Density (Dry) grams / litre	1400	EN1015-10
Shrinkage @ 28 days $\text{mm/m}$	0.5	
Thermal Conductivity $\text{w/m.K}$	0.40	Tabulated
Soluble salts content	< 0.15%	

### **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.