

Product Data Sheet: Eco-render Natural Finish

9/09/2014

Lime Green Eco-render is a pure lime render top coat for most historic buildings or modern Eco-friendly building works. The range is made with Natural Hydraulic Lime.

General Information

Natural Finish is an extremely breathable, elastic and salt resistant fine finishing coat. It does not contain plastics such as PVA or acrylic, nor cement, PFA or any other materials that reduce breathability or contain toxins. It is designed to skim over Ultra: Natural or Duro: Natural.



Packaging

Available in 22kg bags.

Coverage

Approximately 1.5kg per mm of thickness over 1m². One 22kg bag will cover approx. 3.5 to 4 m² at 4mm thick. This does not include any allowance for wastage.

Surface Preparation

Scratch existing basecoat of Ultra: Natural or Duro: Natural with a “nail” or “devil” float once the basecoat has hardened, but while it is still ‘green’.

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

How to Mix

One 22kg sack will need approximately 3.5 to 4.5 litres of clean water. Mixing should be carried out in a drum or forced action mixer. When using a mixer, mix for 10 minutes, if using a mechanical whisk, mix for 2 to 3 minutes, stand for 10 minutes and then mix once more before application.

How to Apply

The number of coats applied is dependent on the surface, the exposure of the building and the finish required. Only use Duro above 5°C and below 30°C. Natural Finish should be applied once the backing coats have had sufficient time to cure. Natural Finish should be applied to a straight, flat, dampened surface in a uniformed thickness.

Avoid over working. Use only a light mist spray if applying water to the surface of the finishing coat, then finish with a wooden float and/or sponge. Can be reworked for up to 8 hours.

Curing and Why

The prevention of drying out too quickly is the key to the success of the application. Lightly spray the base coat if it is too hot or drying out too quickly. In addition, protect from harsh weather conditions, for example, frosts, rain and direct sunlight. The use of a damp hessian, fixed to the wall can slow down the drying out process and provide protection from adverse weather conditions.

Maintenance

A compatible breathable finish would be a limewash with or without pigments or Beeck Mineral paints. Call to discuss further.

Performance

| Test | Result | Standard Info |
|---|--------|---------------|
| Water Vapour Perm. Coefficient (μ) | | EN 1015-19 |
| Compressive strength @ 28 days N/mm ² | CSII | EN 1015-11 |
| Capillary water absorption kg/m ² .min | WI | EN 1015-18 |
| Adhesion N/mm ² | | EN 1015-12 |
| Bulk Density (Dry) grams / litre | 1400 | EN1015-10 |
| Thermal Conductivity w/m.K | 0.40 | Tabulated |
| Shrinkage @ 28 days N/mm ² | 0.5 | |
| Modulus of elasticity @ 28 days Mpa | 8000 | |
| Flexural strength @ 28 days N/mm ² | 0.9 | EN 1015-11 |
| Soluble Salts | <0.15% | |

| Full declaration of ingredients | |
|---------------------------------|---|
| 20%+ | Silica sands, Limestone sands and Natural Hydraulic Lime |
| 0.1% - 1% | Tallow, Clay |
| Below 0.1% | Cellulose (from plants), Air entrainer (man made) and plasticiser |

| Health and Safety | |
|---|---|
| Risk Phrases | Safety Phrases |
| R36/37/38 Irritating to eyes, respiratory system and skin | S22 Do not breathe dust |
| R66 Repeated exposure may cause skin dryness or cracking | 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