LIMELITE RENOVATING PLASTER

PRODUCT DATA SHEET | **LIMELITE RENOVATING PLASTER**

LIMELITE PLASTER PRODUCTS JUL22

LIMELITE RENOVATING PLASTER

Description

Limelite Renovating Plaster is a lightweight, breathable fibre reinforced renovating plaster that controls and manages moisture movement in traditional and damp buildings. **Limelite Renovating Plaster** works with the fabric of a building, letting walls breathe whilst providing a quality, durable finish that protects and performs for years to come.

This breathability enables substrate to dry naturally, meaning **Limelite Renovating Plaster** can provide a fast and effective solution in both domestic and commercial properties for flood damage remediation and heritage restoration.

Limelite Renovating Plaster can be used as a rapid drying, easy to apply alternative to traditional lime based plasters without compromising the flexibility and breathability of the substrate. With a drying time of just 24 hours per coat, **Limelite Renovating Plaster** can be used to dramatically reduce project times when compared to traditional lime materials which can take months to dry. The plaster can be applied to both modern and traditional substrates, including masonry, block, stone and wooden lath.

Uses

Limelite Renovating Plaster can be used to replace existing lime based plaster or as part of a new plaster system in both modern and traditional buildings and is an ideal solution for flood damage repair or flood damage prevention.

Features

- Breathable – can be applied directly to damp walls and substrates
- Prevents corrosion of metal fixtures, such as angle beads and lath
- Provides a barrier to salt and efflorescence
- Lightweight – less than half the weight of a sand and cement plaster
- Insulating
- Fibre reinforced
- Reduces condensation
- Rapid drying – 24 hours per coat
- Lime content makes the product naturally aseptic, preventing mould growth

Fire Resistance

Limelite Renovating Plaster is a non-combustible product (as defined in BS 476 : Part 4), and can be designated Class O in accordance with the requirements of the National Building Regulations for use as a surface finishing material.

Salt Resistance

Limelite Renovating Plaster contains salt inhibitors to prevent efflorescence and salt transfer. In areas of heavy contamination,heavy contamination, such as chimney breasts, **Limelite Easy-Bond** slurry primer should be used prior to the application of Limelite Renovating plaster.

Compatibility

Limelite Renovating Plaster is compatible with most building materials. Lime plaster, however, is not compatible with gypsum, and therefore **Limelite Renovating Plaster** must not be used with gypsum finishing plaster or gypsum plasterboard. Bituminous coatings and traces of gypsum should be removed before plastering.

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Typical Performance

Technical Data	
Dry powder density	600 kg/m^3
Density air dried	800 kg/m^3
Density oven dried	725 kg/m^3
Compressive strength at 28 days	3.0 N/mm^2
Flexural Strength at 28 days	1.4 N/mm^2
Modulus of Elasticity	2,100 N/mm^2
Appearance as supplied	Fine grey powder
Appearance after application (dried)	Light grey keyed finish
Thermal conductivity (k) at 0% moisture by volume	0.13 W/m°C
Thermal conductivity (k) at 3% moisture by volume	0.21 W/m°C
Thermal resistance (R) at 13mm and 3% moisture by volume	0.058 m2 °C/W

Thermal data above is obtained from CIBSE A3 Guide: Thermal Properties of Building Structures.

Technical performance is derived by laboratory testing at 20°C.

Typical Coverage

Application Thickness	Coverage/25kg	Coverage/Tonne
10 mm	3m^2	120m^2
20 mm	1.5m^2	60m^2
30mm	1m^2	40m^2

Figures are approximate and do not account for site wastage

Mixing

For best results **Limelite Renovating Plaster** should be mixed in a clean mixing vessel using a mechanical mixer such as a slow-speed drill and paddle mixer.

Fill bucket with approximately 12.5 litres of cool, clean water. Add 25kg of dry powder to the water and mix for 2-3 minutes until a smooth, homogeneous working consistency is achieved.

Allow to rest for 3 - 5 minutes, then re-mix back to consistency adding small amounts of water if necessary.

Model Specification

Limelite Renovating Plaster is associated with the following NBS clause:

M20 Plastered/Rendered/Roughcast coatings
• 330 PROPRIETARY LIME:SAND

Limelite Renovating Plaster should always be used with a skim coat of **Limelite High Impact Finishing Plaster**.

Application

Solid substrates – Brick, block, stone etc.

Substrates should be cleaned and any loose or friable material removed. Traces of gypsum plaster, bitumen or other materials that could cause a barrier to adhesion must be removed.

Substrates should be primed with **Limelite Easy-Bond** and the first coat of plaster should be applied once the priming coat is tacky.

The plaster should be applied in coats between 7-15mm and a minimum of 24 hours is required between coats. A suitable horizontal scratch should be applied between each coat for a key.

Once the desired thickness has been achieved **Limelite High Impact Finish** should be applied as a skim coat. Note that gypsum finishing plasters are **not** suitable for use with **Limelite Renovating Plaster**.

Wooden Lath

The lath should be cleaned and repaired to a reasonable condition. An initial coat of approximately 6mm of **Limelite Renovating Plaster** should be pushed into the lath to create a solid backing. This should then immediately receive a further coat of **Limelite Renovating Plaster** which should be used to level.

The plaster should receive a suitable horizontal scratch and be left to cure for a minimum of 24 hours before applying **Limelite High Impact Finishing Plaster**. Note that gypsum finishing plasters are not suitable for use with **Limelite Renovating Plaster**.

Decoration

Limelite plasters can be decorated 24 hours after application of **Limelite High Impact Finishing Plaster**. Paints used must be breathable, such as mineral based or water based paints.

Wallpaper and tiling is not recommended due to the non-porous nature of the finish. However, if wallpaper or tiling is used the moisture content of the plaster must be checked and deemed suitable by the supplier of the decorative finishes before application.

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Health & Safety

Health and safety advice, which must be followed, can be found on the Material Safety Data Sheet.

Users are advised to wear protective clothing when using **Limelite Renovating Plaster** including face mask, goggles, gloves and overalls when handling, mixing and applying this product. Skin contact should be avoided, and any eye contact should be dealt with promptly by irrigation with clean water.

Quality Control

Limelite Renovating Plaster is factory blended, tested and packaged to quality control procedures in accordance with BS EN ISO 9001.

Clean Up & Spillages

Dry powders should be disposed of as advised on the material safety datasheet.

Tools and equipment can easily be cleaned using water. Cleaning of tools and equipment should be carried out as soon as possible after application.

Packaging & Storage

Limelite Renovating Plaster is available in 25kg paper bags, palletised and shrink wrapped.

Palletised **Limelite Renovating Plaster** should be stored in cool dry areas clear of the ground, sheeted or under cover and stacked not more than two pallets high. The product should be used on a first in – first out basis. Shelf life is 6 months' subject to temperature and humidity.

Individual bags of **Limelite Renovating Plaster** should be stored in sealed original packaging in a dry location at temperatures between 5°C and 30°C. Avoid exposure to water, frost or heat – extremes in temperatures and high humidity will lead to a reduced shelf life.

Information, Prices & Ordering

If you have any questions about choosing the right product for your particular job, or if you are ready to order, please call us on:

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DoP No. 004

EN 998-1:2016

Renovation plastering mortar for internal use

Dry Bulk Density (oven dried): 725 (+/-100)kg/m^3
Compressive strength: CS II
Adhesion: 0.8 N/mm^2, FP A
Water Absorption: 6.52 kg/m^2
Water vapour diffusion coeffiecient, μ: 12.22
Reaction to fire: Euroclass A1
Thermal Conductivity, $\lambda_{10,dry,mat}$,
P=50% = 0.17W/m.K
Dangerous substances: See Safety Datasheet