

LIMELITE RENOVATING PLASTER



PRODUCT DATA SHEET

LIMELITE RENOVATING PLASTER

LIMELITE PLASTER PRODUCTS

NOV17

LIMELITE RENOVATING PLASTER

Description

Limelite Renovating Plaster is a pre-blended, lightweight and 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 and provides 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 for flood remediation, heritage restoration and in both domestic and commercial properties.

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 where traditional lime materials would 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 modern and traditional environments and is an ideal solution for flood damage remediation or floor 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.
- Contributes to the U-Value of the building.
- Fibres reduce cracking and crazing.
- Reduced condensation
- Rapid drying – 24 hours per coat.
- Lime content is naturally aseptic, preventing mould growth
- Fire resistant – non-combustible to BS476:4

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, however on areas with heavy contamination, such as chimney breasts, **Limelite Easy-Bond Primer** should be used.

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.

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 m ² °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.

LIMELITE RENOVATING PLASTER



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 clean water and 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 Finish**. Paints used must be breathable, such as mineral based or water based paints.

Wallpaper and tiling is not recommended, however, to avoid damaging decorative finishes, the moisture content of the plaster must be checked and deemed suitable by the supplier of the decorative finishes before application.

Quality Control

Limelite products are factory blended, tested and packaged to quality control procedures in accordance with BS EN ISO 9001.

Clean Up & Spillages

Dry powders should be swept up and disposed of in accordance with Local Authority regulations.

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 nominal 25kg 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 a minimum of 3 months when properly stored but can be in excess of 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 - high temperatures and high humidity will lead to a reduced shelf life.



LIMELITE RENOVATING PLASTER



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.

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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LIMELITE EASY-BOND



PRODUCT DATA SHEET

LIMELITE EASY-BOND

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LIMELITE EASY-BOND

Description

Limelite Easy-Bond is a pre-blended, salt resistant primer designed for use with the Limelite Plaster range to aid adhesion and control suction. The use of **Limelite Easy-Bond** will provide a key to smooth substrates and provide resistance to sulphate attack.

Uses

When applied as part of the **Limelite Renovating Plaster** system, **Limelite Easy-Bond** is ideal for use in heritage restoration, renovation and damp environments.

Limelite Easy-Bond is salt resistant and ideal for use in areas likely to be contaminated with salt, such as underground areas or chimney breasts.

Technical Data

Dry Powder Density	1200kg/m ³
Wet Mixed	1600kg/m ³
Bond Strength (Dry)	1.26N/mm ²
Bond Strength (Wet)	0.92 N/mm ²
Typical Coverage	14-18m ² per 5kg

Technical performance is derived by laboratory testing at 20-22°C.

Mixing

5kg of **Limelite Easy-Bond** should be mixed with 2.5 litres of clean potable water. Once mixed, **Limelite Easy-Bond** will give a working time of 15 minutes. Only mix the amount of material that can be applied in time.

The performance characteristics of **Limelite Easy-Bond** are dependent on temperature - higher or lower temperatures will result in reduced or extended setting times, respectively.

Application

Limelite Easy-Bond should be brushed onto the substrate around 15 minutes before applying the first plaster coat. **Limelite Easy-Bond** can also be applied by spray machine for covering larger areas faster.

Quality Control

Limelite products are factory blended, tested and packaged to quality control procedures in accordance with BS EN ISO 9001.

Clean Up & Spillages

Dry powders should be swept up and disposed of in accordance with Local Authority regulations.

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 Easy-Bond is available in nominal 5kg plastic tubs.

Limelite Easy-Bond should be stored in cool dry areas clear of the ground, sheeted or under cover. The product should be used on a first in – first out basis. Shelf life is a minimum of 6 months when properly stored but can be in excess of 12 months subject to temperature and humidity.

Individual tubs of **Limelite Easy-Bond** 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 - high temperatures and high humidity will lead to a reduced shelf life.

LIMELITE EASY-BOND



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 Easy-Bond** 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.

Information, Prices & Ordering

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LIMELITE HIGH IMPACT FINISHING PLASTER



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LIMELITE HIGH IMPACT FINISHING PLASTER

Description

Limelite High Impact Finishing Plaster is a flexible, breathable and durable finishing plaster designed to provide a quality finish over **Limelite** backing plasters. The finishing plaster can also be used over lime backgrounds, sand/cement mixes and existing gypsum plaster.

Limelite High Impact Finishing Plaster can be used as part of the **Limelite Renovating Plaster system**, which can be applied directly to damp walls or as part of flood remediation works.

Note that **Limelite High Impact Finishing Plaster** is not suitable for application onto plasterboard.

The plaster dries to an off-white, matt finish and can be left unpainted for a natural look if desired.

Uses

When applied as part of the **Limelite Renovating Plaster system**, **Limelite High Impact Finishing Plaster** is ideal for use in heritage restoration, renovation and damp environments.

Limelite High Impact Finishing Plaster is suitable for use in commercial and domestic environments where a high level of impact resistance is required.

Data	
Dry powder density	1000 - 1200 kg/m ³
Density air dried	1700 kg/m ³
Density oven dried	1690 kg/m ³
Compressive strength at 28 days	15 N/mm ²
Flexural Strength at 28 days	3.5 N/mm ²
Modulus of Elasticity	2,100 N/mm ²
Appearance as supplied	White/Off White Powder
Appearance after application (dried)	White/Off White Matt Surface
Thermal conductivity (k) at 0% moisture by volume	0.34 W/m°C
Thermal conductivity (k) at 3% moisture by volume	0.47 W/m°C
Setting Time (Temperature Dependant)	90 minutes

Thermal data above is obtained from CIBSE A3 Guide: Thermal Properties of Building Structures. Technical performance is derived by laboratory testing at 20-22°C.

Fire Resistance

Non-Combustible as defined in B.S. 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.

Model Specification

Limelite High Impact Finishing Plaster is associated with the following NBS clause:

M20 Plastered/Rendered/Roughcast coatings

- 330 PROPRIETARY LIME:SAND

Application Thickness	Area
2mm	400 m ² /tonne
2mm	10m ² / 25kg bag

Figures are approximate and do not allow for site wastage.

Mixing

For best results **Limelite High Impact Finishing 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 7.5 litres of clean water and 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.

Application

For use as part of the Limelite Renovating Plaster System

Limelite High Impact Finishing Plaster should be applied in a single coat of between 2-5mm thick. The plaster should be left to set for 90 minutes before using stainless steel trowels to level. Note that **Limelite High Impact Finishing Plaster** has a matt finish and should not be overworked.

For use over existing plaster finishes

Existing plaster should be clean, level and in good condition.

The wall should be primed with **Limelite Easy-Bond** and **Limelite High Impact Finishing Plaster** should be applied once the primer is tacky. **Limelite High Impact Finishing Plaster** should be applied in a single coat of between 2-5mm thick. The plaster should be left to set for 90 minutes before using stainless steel trowels to level. Note that **Limelite High Impact Finishing Plaster** has a matt finish and should not be overworked.

LIMELITE HIGH IMPACT FINISHING PLASTER



Decoration

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

Wallpaper and tiling is not recommended, however, to avoid damaging decorative finishes, the moisture content of the plaster must be checked and deemed suitable by the supplier of the decorative finishes before application.

Tiling

Limelite High Impact Finishing Plaster is not compatible with cementitious tile adhesives, tiles should be applied directly to the floating coat when set and dried. If tiles are applied directly to the finishing plaster then it must first be treated with a suitable primer.

Quality Control

Limelite products are factory blended, tested and packaged to quality control procedures in accordance with BS EN ISO 9001.

Clean Up & Spillages

Dry powders should be swept up and disposed of in accordance with Local Authority regulations.

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 High Impact Finishing Plaster is available in nominal 25kg bags palletised and shrink wrapped.

Palletised **Limelite High Impact Finishing 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 a minimum of 3 months when properly stored but can be in excess of 6 months subject to temperature and humidity.

Individual bags of **Limelite High Impact Finishing 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 - high temperatures and high humidity will lead to a reduced shelf life.

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 High Impact Finishing 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.

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