

EWI-744 INSULATING LIME RENDER PRODUCT DATA SHEET

EWI-744 Insulating Lime Render is a dry-mix natural hydraulic lime render designed to improve the thermal performance of solid wall construction while maintaining high vapour permeability.

Formulated with NHL 2 binder, lightweight insulating aggregate and reinforcing fibres, it provides a breathable render solution that helps reduce heat loss without trapping moisture within the wall.

Its lightweight structure also helps improve buildability and allows thicker applications than many traditional lime renders.

Intended Uses

EWI-744 Insulating Lime Render is intended for use on suitable internal and external backgrounds where thermal improvement and moisture movement are both important. It is particularly suited to solid masonry and traditional wall construction, as well as breathable natural building materials such as hemp, straw and rammed earth.

Internally, it can be used as a backing coat or brought through to a finish coat before receiving a suitable fine plaster. Externally, it is used as a backing coat within a breathable render build-up and should be finished with a suitable lime topcoat and mineral-based paint where required.

It may also be applied onto suitable render carrier boards and other host surfaces with suction, although weak or friable backgrounds may need project-specific advice.



Technical Specification

Composition

Natural Hydraulic Lime, recycled glass aggregates, additives

Binder

NHL 2

Thermal Conductivity

0.095 W/mK

Yield

Approx. 15 litres per 9kg

Coverage

Approx. 1.5m² at 10mm thickness per 9kg

Aggregate

2mm down recycled glass aggregate

Water Mix Ratios

4.5-5.5 litres per 9 kg

Application Method

Manual

Layer Thickness

Up to 50mm

Reaction to Fire

Class A1

Please note: These figures may vary based on the substrate and application method.

Directions for use

Substrate Preparation

Substrates must be sound, clean and free from dust, dirt, mould, loose material and other contaminants that may affect adhesion. Preparation should suit the condition and suction of the background. Damp down absorbent surfaces as needed before application. Dense or low-suction backgrounds may require little or no pre-wetting. Any dubbing out should be completed and allowed to firm up before the main coats are applied. Protect the work area before application begins. Do not use PVA.

Product Preparation

Mix EWI-744 Insulated Lime Render with 4.5 to 5.5 litres of clean potable water per 9kg bag. Do not add admixtures or other materials. Mix thoroughly to a firm, workable consistency that holds its shape without slumping. Allow the mix to stand briefly, then remix before use. If part bags are used, dry blend the contents first to help maintain consistency, as settlement can occur during storage and transport. Use full bags wherever possible.

Application

EWI-744 Insulated Lime Render should be applied as part of a minimum two-coat system. Coat thickness will depend on the required build-up and method of application. Experienced applicators can typically apply around 30 to 50mm per pass by hand. Lighter passes may be preferred until familiarity with the product is established.

Scratch each coat to provide a mechanical key before applying the next. A deeper crosshatch scratch is preferred. Further coats can usually be applied after 1 to 2 days, depending on site conditions and curing. The final coat may be finished with a wooden float, or with a sponge float where a more decorative finish is required. Where a decorative lime finish is to follow, apply it while suction remains manageable.

Application Conditions

Do not apply EWI-744 Insulated Lime Render when air or substrate temperatures are below 5°C, above 30°C, or where frost or snow is expected. Freshly applied material must be protected from rapid drying, direct sun, strong wind, rain and frost.

During curing, the render should be protected and kept under suitable conditions to support strength gain and reduce shrinkage. Where needed, damp hessian may be used between coats to help control curing.

Clean-up

Clean all tools, mixing equipment and containers with water immediately after use. Do not allow material to dry onto tools or machinery.

Packaging & Storage

EWI-744 Insulated Lime Render is supplied in 9kg polythene-lined paper bags. Store in dry conditions, in unopened bags and clear from the ground. Bags must be protected from water and damp at all times, and any opened or part-used bags should be resealed. For best performance, use within 6 months of manufacture.

Compliance with Standards

EWI-744 Insulated Lime Render is manufactured in accordance with BS EN 998-1:2016. The formulation contains no Portland cement.

Safety Measures

EWI-744 Insulated Lime Render contains lime and should be handled with care. Avoid contact with skin and eyes, and wear suitable gloves, eye protection and protective clothing during handling and application. Avoid breathing dust and keep the product out of reach of children. Wet mortar may cause irritation, dermatitis and burns. In the event of contact with skin or eyes, rinse immediately with clean water and seek medical attention where necessary. Refer to the relevant Safety Data Sheet for full guidance on handling and protection.

General Information

This data sheet replaces all previous editions. The information provided is based on current knowledge and practical experience, and while it has been compiled with care, it is not guaranteed to be accurate, complete or suitable for all applications. It is the responsibility of the user to verify the product's suitability for their specific use case. No legal obligations are established by this document.

Data Sheet Revision Date: 16/04/2026



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