EWIPRO Render Systems

EWI-747

LIME RENDER NHL 3.5

PRODUCT DATA SHEET



EWI-747 Lime Render NHL 3.5 is a natural hydraulic lime render formulated for breathable internal and external wall finishes. It is designed to support moisture movement through traditional solid-wall construction while providing a durable, vapour-permeable render suitable for heritage, refurbishment and selected new-build applications.

Its NHL 3.5 formulation makes it particularly suitable where compatibility with traditional masonry and good moisture management are required.

Intended Uses

EWI-747 Lime Render NHL 3.5 is intended for internal and external application over suitably prepared traditional masonry backgrounds, including brick, stone and other solid-wall construction.

It is suitable for breathable lime render systems where a traditional, vapour-permeable finish is required and may be applied manually or using suitable spray equipment.

Technical Specification

Composition	Natural hydraulic lime, natural sands and additives
Binder	NHL 3.5
Quantity Per Unit	23kg
Consumption	Approx. 1.5kg/m²/mm
Minimum / Maximum Thickness	4mm-15mm
Recommended Thickness	Approx. 10mm
Coverage Rate	Approx. 1.5m² per 23kg bag at 10mm
Water Mix Proportions	Approx. 4–5 litres of clean water per 23kg bag

Application Temperature	+5°C to +30°C
Working Time	Approx. 60 minutes at 23°C and 65% RH
Maximum Relative Humidity	80%
Water Vapour Permeability Coefficient	$\mu \leq 6$
Water Absorption	Class W0
Compressive Strength	Class CS II at 28 days
Reaction to Fire	Class A1

Please note: Thickness, consumption, coverage and time figures are indicative only and may vary depending on the substrate, application method and site conditions.

Please see the reverse of this page for directions for use.

Directions for use

Substrate Preparation

The substrate must be sound, clean and free from dust, loose material, oils, grease, efflorescence, biological growth and other contaminants that may affect adhesion. Before application, dampen the background with clean water without saturating it to help control suction and reduce the risk of rapid drying.

Uneven or deteriorated backgrounds should be repaired or levelled before the main render application to provide a suitable and reasonably uniform surface.

Product Preparation

Mix EWI-747 Lime Render NHL 3.5 with approximately 4–5 litres of clean water per 23kg bag. Gradually add the dry material to the water and mix for approximately 3–5 minutes until a smooth, homogeneous and lump-free consistency is achieved.

Do not use excessive water, as this may reduce mechanical performance and increase the risk of cracking. The mixed mortar has a working time of approximately 60 minutes under typical conditions.

Application

EWI-747 may be applied manually with a trowel or mechanically using suitable spray equipment. Apply at approximately 4–10mm for typical applications, with around 10mm recommended.

Where greater thickness is required, build up the render in additional coats rather than exceeding 15mm in a single coat. Apply subsequent coats before the previous layer has fully hardened where appropriate, then float to achieve the required finish.

Application Conditions

Apply when air and substrate temperatures are between +5°C and +30°C. Do not apply where frost is expected or where conditions may cause excessively rapid drying.

Protect freshly applied render from rain, strong wind, frost and rapid moisture loss during curing.

Clean-up

Clean tools and equipment with clean water immediately after use. Do not allow material to harden on tools or surrounding surfaces.

Packaging & Storage

EWI-747 Lime Render NHL 3.5 is supplied in 23kg bags. Store unopened in dry conditions and protect from moisture. Shelf life is up to 12 months from the date of manufacture when stored correctly.

Compliance with Standards

TBC

Safety Measures

Wear suitable gloves, eye protection, protective clothing and respiratory protection during preparation and application. Avoid contact with the skin and eyes and avoid inhaling dust. In the event of eye contact, rinse immediately with plenty of clean water and seek medical advice where necessary. Refer to the relevant Safety Data Sheet for full handling, first aid and disposal information.

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: 28/10/2026

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