EWIPRO Render Systems

EWI-748

LIME BASECOAT NHL 5

PRODUCT DATA SHEET

EWI-748 Lime Basecoat is a natural hydraulic lime-based bonding and reinforcing mortar formulated with fine natural pozzolans and selected additives. It provides good adhesion, vapour permeability and durability for use within breathable external wall insulation and lime render systems.

It can be used for bonding suitable insulation boards, forming reinforced basecoat layers and regularising compatible masonry backgrounds.



Intended Uses

EWI-748 Lime Basecoat is intended for internal and external use as an adhesive and reinforcing mortar within suitable external wall insulation systems. It may also be used as a basecoat for levelling and regularising masonry backgrounds.

The product is suitable for new-build, refurbishment and breathable construction applications where a lime-based mortar is required.

Technical Specification

Composition	Lime, binder, fine natural pozzolans and selected additives
Binder	NHL 5
Grain Size	<0.8mm
Quantity Per Unit	21kg
Consumption	Approx. 1.5kg/m²/mm
Minimum / Maximum Thickness	3–10mm
Recommended Thickness	Approx. 6mm
Coverage Rate	Approx. 2.3m² per 21kg bag at 6mm

Water Mix Proportions	Approx. 4.5–5 litres of clean water per 21kg bag
Application Temperature	+5°C to +35°C
Working Time	Approx. 120 minutes at 23°C and 65% RH
Maximum Relative Humidity	80%
Adhesion	0.30MPa
Capillary Water Absorption	Class W2
Compressive Strength	Class CS III 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, stable and clean, and free from dust, oils, grease, efflorescence, biological growth, loose material and other contaminants that may affect adhesion. Where required, use a suitable primer according to the substrate type, condition and absorbency.

Where appropriate for mineral or highly absorbent backgrounds, lightly dampen the surface before application without saturating it.

Product Preparation

Mix EWI-748 Lime Basecoat with approximately 4.5–5 litres of clean water per 21kg 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 add excessive water, as this may reduce mechanical strength and increase the risk of cracking. The mixed mortar has a working time of approximately 120 minutes under typical conditions.

Application

Apply EWI-748 at a thickness appropriate to the application, typically around 6mm and no more than 10mm in a single coat. Where additional thickness is required, apply in successive coats.

For bonding insulation boards, apply the mortar in accordance with the relevant EWI system requirements, ensuring sufficient contact between the board and substrate.

For reinforced basecoat applications, apply an even layer of mortar, embed suitable alkali-resistant fibreglass mesh into the wet material and cover the mesh completely with additional mortar to form a continuous reinforced layer.

Allow bonded insulation boards to achieve sufficient adhesion before applying the reinforced basecoat layer.

Application Conditions

Apply when the air, substrate and product temperatures are between +5°C and +35°C. Protect freshly applied material from rain, frost, strong winds, direct sunlight and rapid drying 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-748 Lime Basecoat is supplied in 21kg 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. Wet lime-based material may cause irritation or burns. 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.

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Address:
Unit 1-2 King George's Trading Estate,
Davis Road,
Chessington,
England,
KT9 1TT

Email:
info@ewipro.com

Phone:
0800 133 7072