EWIPRO Render Systems

EWI-745

INSULATING CORK RENDER

PRODUCT DATA SHEET

EWI-745 Insulating Cork Render is a lightweight natural hydraulic lime render designed to improve the thermal performance of internal and external walls. Formulated with recycled glass aggregate, natural cork and lime, it provides a breathable insulating render suitable for a range of mineral and traditional backgrounds.



Intended Uses

EWI-745 Insulating Cork Render is suitable for internal and external use over substrates including brick, concrete block, lime mortar and suitable ceramic or thermo-clay backgrounds. It is not recommended for use over OSB panels. For build-ups greater than 80mm, a rigid insulation system should be considered.

Technical Specification

Composition	Natural hydraulic lime (NHL 5), recycled glass aggregate, natural granulated cork, natural pozzolans, water repellent and organic additive
Quantity Per Unit	10kg
Consumption	Approx. 4.7kg/m² per 10mm thickness
Minimum / Maximum Thickness	10–80mm
Maximum Thickness Per Pass/Layer	30mm
Recommended Thickness	30mm
Coverage Rate	Approx. 0.71m² per 10kg bag at 30mm thickness
Water Mix Proportions	Approx. 4.5L of clean water per 10kg dry mix
Application Temperature	+5°C to +30°C

Working Time	Approx. 60 minutes
Thermal Conductivity	T1: ≤ 0.055W/m·K
Apparent Density of Hardened Mortar	467kg/m³
Adhesion to Substrate	≥ 0.2N/mm² (FP: B)
Water Vapour Permeability	μ ≤ 3.6
Water Absorption	≥ 0.07kg/(m²·min$^{0.5}$)
Compressive Strength	CSI ≥ 1.2N/mm² 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, dry and clean, with previous plaster, loose material, microorganisms and other contaminants that may affect adhesion removed. Dampen the substrate before application to support adhesion and curing. Older or uneven substrates may require a suitable levelling coat before application.

Product Preparation

Mix one 10kg bag of EWI-745 with approximately 4.5 litres of clean water for 3–5 minutes until a homogeneous consistency is achieved. For larger quantities, use a suitable low-speed mixer. Use the prepared material within approximately 60 minutes.

Application

For spray application, apply EWI-745 evenly in layers of approximately 10–30mm. For thicknesses greater than 30mm, apply the material in two or more layers.

For trowel application, apply in layers of approximately 10–15mm. Where a greater build-up is required, apply additional layers before the preceding layer has fully hardened. The total system thickness should not exceed 80mm.

Application Conditions

Protect the applied render from rapid drying and adverse weather during application and curing. Ensure the substrate is suitably dampened where required and maintain appropriate site conditions to support consistent curing.

Clean-up

Clean tools and equipment with clean water immediately after use. Hardened material should be removed mechanically. Do not dispose of waste material into drainage systems.

Packaging & Storage

Supplied in 10kg bags. Store unopened in the original, tightly sealed packaging in a cool, dry location protected from rain and moisture. Use within 12 months of manufacture and, where possible, use the full contents once opened.

Compliance with Standards

TBC

Safety Measures

Wear suitable protective gloves, protective clothing and eye protection during handling and application, with respiratory protection where dust may be generated. Avoid contact with the skin and eyes. Due to its alkaline nature, the product may cause irritation. In the event of contact, rinse immediately with 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.

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