

EWI-251

INSULATING RENDER COAT

PRODUCT DATA SHEET

EWI-251 Insulating Render Coat is designed to create high-performance, thermal-insulating and vapour-permeable coatings for external applications. It offers an alternative to traditional external insulation systems, helping to improve energy efficiency while allowing the building fabric to breathe. It also provides acoustic benefits, helping to reduce external noise and improve overall comfort.

Designed for use as an insulating undercoat within an external render build-up, EWI-251 Insulating Render Coat should be finished with EWI-252 Repair Render for a smooth, sponged finish, or with EWI-075 Silicone Render for a more contemporary appearance.

Intended Uses

EWI-251 Insulating Render Coat is intended for external use as a breathable, insulating render coat on suitable wall substrates.

It is suitable for blockwork, masonry, stone, concrete and refurbished wall surfaces where an insulating render layer is required. For non-standard backgrounds or applications, seek advice from the EWI Pro Technical Team.



Technical Specification

Composition

Hydrated lime, Portland cement, mineral fillers and perlite.

Colour

Grey

Quantity per Unit

30 l/unit

Granulation

0-2mm

Consumption

Approx. 1.1 l/m²/mm

Thermal Conductivity

Approx. 0.071 W/mK

Compressive Strength (28 days)

≥ 2 MPa

Soluble chromium VI content

≤ 0.0002% (2 ppm)

Water mix proportions

Approx. 14 l/unit

Application time

Approx. 3 hours

Minimum/Maximum Layer Thickness

20-120mm

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

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

Directions for use

Substrate Preparation

Before application, assess the substrate for condition, moisture and, where relevant, salinity. Substrates must be clean, sound and free from dust, soot, grease, release agents, paint residues and excess mortar. Any weak, damaged or friable areas must be removed and repaired, and any fungal or mildew growth should be treated and removed.

Highly absorbent substrates should be lightly pre-dampened with clean water before application. Dense or low-suction surfaces may require priming to promote adhesion.

Product Preparation

Mix with approximately 14 litres of clean, cool water per 30L unit using a suitable mechanical mixer until a homogeneous consistency is achieved.

Mechanical mixing should take around 2 to 3 minutes. When mixing by hand, mix for approximately 4 to 5 minutes. Do not remix hardened material.

Application

Apply EWI-251 Insulating Render Coat evenly using a hawk and trowel or suitable spray machine. It can be applied in total thicknesses from 20mm to 120mm, with each individual layer applied at a maximum of 30mm. Level with a straight-edge tool and leave the surface open. Do not smooth, float or rub. Additional layers may be applied once the previous coat has set sufficiently.

Application Conditions

Application should be carried out in ambient, substrate and material temperatures between +5°C and +25°C. Protect the surface from frost, rainfall, excessive temperatures, strong winds and rapid drying during application and curing.

Clean-up

Clean tools and equipment with clean water immediately after use. Hardened material should be removed mechanically.

Packaging & Storage

EWI-251 Insulating Render Coat should be stored in dry conditions in the original, unopened and undamaged packaging. Keep protected from moisture and store off the ground in a dry, well-ventilated area. Shelf life is up to 12 months from the date of manufacture.

Compliance with Standards

N/A

Safety Measures

Wear suitable PPE, including gloves, eye protection and protective clothing, during mixing and application. Avoid contact with skin and eyes. In case of eye contact, rinse immediately with plenty of clean water and seek medical advice. Refer to the relevant Safety Data Sheet for full guidance on handling, storage and disposal.

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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