EWIPRO Render Systems

EWI-225

PREMIUM BASECOAT

PRODUCT DATA SHEET



EWI-225 Premium Basecoat is a fibre-reinforced, polymer-modified adhesive and basecoat for external wall insulation and render systems. It is suitable for bonding EPS, mineral wool and wood fibre insulation boards, and for forming reinforced basecoat layers with fibreglass mesh. Its white cement-based formulation provides good adhesion, flexibility and durability.

Intended Uses

EWI-225 Premium Basecoat is intended for bonding suitable insulation boards to prepared substrates and for forming the reinforced basecoat layer within external wall insulation systems. It can also be used as a basecoat in suitable render-only applications where a reinforced, stable substrate is required before the application of subsequent finishes.

Technical Specification

Composition	White Portland cement, mineral fillers, synthetic fibres, polymers and modifying admixtures
Quantity Per Unit	25kg
Consumption	Approx. 5.5kg/m²
Minimum / Maximum Thickness	4–10mm
Recommended Thickness	Adhesive for EPS/Mineral Wool/Kingspan K5/Wood Fibre:4-6mm; Basecoat Layer: 6mm
Coverage Rate	Approx. 4.5m² per 25kg
Water Mix Proportions	Approx. 6.5L of clean water per 25kg dry mix
Dry Bulk Density	Approx. 1.60g/cm³
Application Temperature	+5°C to +25°C

Working Time	Approx. 2 hours at +20°C and approximately 60% RH
Drying Time	Approx. 12–48 hours depending on site and weather conditions
Adhesion to Concrete (Air-Dry)	≥ 0.3MPa
Adhesion to Polystyrene / Mineral Wool	≥ 0.08MPa
Capillary Water Absorption	≤ 0.5kg/m²
Water Vapour Permeability EPS / Mineral Wool	<1.0m
Organic Content	4.26%
Reaction to Fire	Basecoat: A2; EPS: B; Mineral Wool: A2
Soluble Chromium (VI) Concentration	≤ 0.0002%

Recommended Thickness by Substrate (Render-only System)

Substrate	Recommended Thickness	Coverage Rate
Brick / Block	10mm	Approx. 2.7m² per 25kg bag
Pebbledash	10mm	Approx. 2.7m² per 25kg bag
Existing Render	6mm	Approx. 4.5m² per 25kg bag
Carrier Board	4-6mm	Approx. 4.5-6.8m² per 25kg bag

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

Directions for use

Substrate Preparation

The substrate must be sound, stable, clean and free from dust, dirt, loose material and other contaminants that may affect adhesion. Remove weak or poorly bonded areas before application. Where required, use a suitable primer according to the substrate type, condition and absorbency. When used as a reinforced basecoat, ensure the insulation boards are securely fixed, level, dry and free from contamination.

Product Preparation

Mix one 25kg bag of EWI-225 with approximately 6.5 litres of clean water using a suitable paddle mixer until smooth and lump-free. Leave to stand for approximately 5 minutes, then remix. Do not add further water once the material has begun to set.

Application

When used as a bedding adhesive, apply EWI-225 to the rear of the insulation board using a suitable trowel and application method for the substrate. Allow the adhesive to set sufficiently before installing mechanical fixings.

When used as a reinforced basecoat, apply the material evenly over the insulation and embed fibreglass mesh into the fresh material. Smooth the surface so the mesh is fully covered and overlap adjoining mesh sections appropriately.

Application Conditions

Apply between +5°C and +25°C. Protect freshly applied material from rain, frost, snow, strong winds, direct sunlight and rapid drying. Drying time will vary depending on temperature, humidity, substrate, insulation type and application thickness.

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 25kg bags. Store unopened in the original packaging in a dry environment above +5°C and protect from moisture. Shelf life is up to 12 months from the date of manufacture when stored correctly.

Compliance with Standards

ETA 15/0576 and ETA 15/0575.
BBA Approval Inspection Testing Certificate 18/5503.

Safety Measures

Wear suitable protective gloves, protective clothing and eye protection during mixing and application, with suitable respiratory protection where dust may be generated. Wet mortar may irritate or burn the skin and eyes, so direct contact should be avoided. In the event of eye contact, rinse immediately and thoroughly with clean water and seek medical advice. Remove contaminated clothing promptly and wash affected skin thoroughly. 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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