EWIPRO Render Systems

EWI-220
EPS BASECOAT
PRODUCT DATA SHEET



EWI-220 EPS Basecoat is a cement-based, polymer-modified adhesive and reinforcing basecoat designed for use with expanded polystyrene (EPS) insulation systems. It can be used as a bedding adhesive for fixing EPS insulation boards to suitable substrates and as a reinforced basecoat for embedding fibreglass mesh over EPS insulation. The formulation contains reinforcing fibres and polymer additives to provide good adhesion, flexibility and resistance to cracking.

Intended Uses

EWI-220 EPS Basecoat is intended for bonding EPS insulation boards to suitable prepared substrates and for forming the reinforced basecoat layer over EPS insulation. When used as a reinforcing basecoat, fibreglass mesh is embedded into the freshly applied material to create a stable surface for subsequent compatible finishes. The substrate and insulation boards must be sound, stable and appropriately prepared before application.

Technical Specification

Composition	Portland cement, mineral fillers, polymers, organic admixtures and reinforcing fibres
Quantity Per Unit	25kg
Consumption	Approx. 4.5kg/m²
Minimum / Maximum Thickness	4–6mm
Recommended Adhesive Thickness – EPS	4–6mm
Recommended Basecoat Thickness	6mm
Coverage Rate	Approx. 5.6m² per 25kg
Water Mix Proportions	Approx. 5.8L of clean water per 25kg dry mix
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 when used as a bedding adhesive
Adhesion to Concrete (Air-Dry)	≥ 0.3MPa
Adhesion to Polystyrene	≥ 0.08MPa, with rupture in the thermal insulation material
Capillary Water Absorption	≤ 0.5kg/m²
Water Vapour Permeability – EPS	<1.0m
Organic Content	2.33%
Reaction to Fire	Class B
Soluble Chromium (VI) Concentration	≤ 0.0002%

Please note: Thickness, consumption and coverage figures are indicative only and may vary depending on the condition, profile and absorbency of the substrate, as well as the application method. Actual material requirements should be assessed on site before application.

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

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 EPS insulation boards are securely fixed, level, dry and free from contamination.

Product Preparation

Mix one 25kg bag of EWI-220 with approximately 5.8 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-220 to the rear of the EPS 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 EPS insulation, embed fibreglass mesh into the fresh material and smooth the surface so the mesh is fully covered. Overlap adjoining mesh sections appropriately.

Application Conditions

Apply between +5°C and +25°C. Protect freshly applied material from rain, frost, strong winds, direct sunlight and rapid drying. Drying time will vary depending on temperature, humidity, substrate 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 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 ETAG 004.

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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