

EWI-221

RAPID SET EPS

BASECOAT

PRODUCT DATA SHEET

EWI-221 Rapid Set EPS Basecoat is a fast-setting, polymer-modified, cementitious adhesive supplied as a dry mix in 25kg bags.

It is designed for time-critical projects where efficiency and reliability are essential, offering dual functionality as both an adhesive for fixing EPS insulation boards and a basecoat within the reinforced basecoat layer.

The material produces a compact, durable and waterproof finish with accelerated setting times, helping to improve programme turnaround throughout the year. It performs reliably in cooler conditions, but should not be applied if the substrate or materials are frozen, or if temperatures fall below 0°C.

Intended Uses

EWI-221 Rapid Set EPS Basecoat is intended for use in EPS insulation systems and suitable render-only applications where a fast-setting adhesive and basecoat is required. It can be used to fix EPS insulation boards to suitable substrates and also as a reinforced basecoat layer prior to render finishes, with fibreglass mesh embedded within the material.

Much like EWI-220 EPS Basecoat Adhesive, EWI-221 offers dual functionality, with the added benefit of accelerated setting times for projects where speed on site is particularly important.

The product is suitable for EPS insulation boards only and is not suitable for fixing XPS insulation boards or for application onto bituminous substrates.



Technical Specification

Composition

Quartz sand, portland cement, modifying supplements, polymers, and microfibers

Consumption

Approx. 4.5 kg/m²

Soluble chromium VI content

0.0002 % (2ppm)

Adhesion to (Concrete)

0.25 MPa

Adhesion to (EPS)

≥ 0.08 MPa

Application and setting temperature

0°C to 25°C

Water mix proportions

approx. 4.6L of water per 25kg of dry mix

Application time

Approx 1-3 hours (Dependent on temperature and humidity)

Minimum/Maximum Layer Thickness

3 mm - 5 mm

Hardening Time (at > +5 °C)

Approx. 24 h

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

Directions for use

Substrate Preparation

Substrates must be sound, stable, clean, dry and free from dust, grease, loose material or any contamination that may affect adhesion. Uneven surfaces should be levelled before application. Absorbent mineral substrates should be primed with EWI-301 Water-Based Primer, while smooth or painted surfaces should be checked for soundness and prepared with EWI-310 Universal Primer where required. When used as a basecoat, insulation boards must be securely fixed, level and flush before application.

Product Preparation

EWI-221 Rapid Set EPS Basecoat is supplied as a dry mix and must be mixed with approximately 5.3 litres of clean water per 25kg bag. Mix thoroughly with a mechanical paddle mixer until a smooth, lump-free consistency is achieved. Do not add further water once the product has begun to set.

Application

When used as an adhesive, apply the material to the back of the EPS insulation board using a suitable trowel. For uneven substrates, apply a perimeter ribbon with dabs through the centre of the board. On flat substrates, the adhesive may be applied over the full surface using a notched trowel. Fix boards firmly to the substrate and allow the adhesive to set before mechanical fixing.

When used as a reinforced basecoat, apply the material evenly over the installed EPS boards and embed alkali-resistant fibreglass mesh while wet. Apply additional material as required to fully cover the mesh and achieve a smooth, even surface ready for finishing. Protect freshly applied material from adverse weather conditions during application and for at least 8 hours afterwards.

Application Conditions

Do not apply in rain, high humidity or where wet weather is expected before the product has set. Do not apply if the substrate or materials are frozen, or if the temperature is below 0°C or likely to fall below 0°C during setting. Protect the work with suitable coverings where necessary.

Clean-up

Tools and equipment should be cleaned with clean water immediately after use. Once hardened, the material can only be removed mechanically. Waste material should not be allowed to enter drainage systems or watercourses.

Packaging & Storage

EWI-221 Rapid Set EPS Basecoat is supplied in 25kg bags. The product should be stored in unopened original packaging in a dry, weatherproof environment, off the ground and protected from moisture. When stored correctly, shelf life is 12 months from the date of manufacture.

Compliance with Standards

EWI-221 Rapid Set EPS Basecoat is manufactured for use within external wall insulation and render systems in accordance with relevant system performance requirements. For full system compliance, installation should be carried out in line with current EWI Pro guidance, relevant British Standards and project-specific specification requirements.

Safety Measures

EWI-221 Rapid Set EPS Basecoat contains cement and may cause irritation to skin, eyes and the respiratory system. Suitable protective gloves, eye protection, protective clothing and respiratory protection should be worn where necessary during handling and mixing. Contact with skin and eyes should be avoided. In the event of eye contact, rinse immediately with plenty of clean water and seek medical attention. Any contaminated skin should be washed thoroughly after contact. The product should be kept out of reach of children, and the relevant Safety Data Sheet should be consulted 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.

Data Sheet Revision Date: 17/03/2026



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