

EWI-220

EPS

BASECOAT

EPS Basecoat is a cement based adhesive. It is manufactured from a mixture of Portland cement, texturing aggregate, mineral fillers and hydrated lime. The grey cement based basecoat is used to embed in the fibreglass mesh as part of the reinforcement layer on polystyrene (EPS) thermal insulation systems. EPS basecoat can also be used as a bedding adhesive to stick EPS boards to a substrate.

The EPS Basecoat is highly durable, elastic, quick drying and has excellent frost resistance properties. EPS Basecoat should be stored correctly to ensure the product performs consistently throughout the application process.

The presence of polymer-modified binders within the adhesive deliver strong adhesion, better flexibility, higher crack resistance and improved durability.

Intended Uses.

EPS Basecoat should be installed with the fibreglass mesh to form the reinforcement layer on top of the EPS thermal insulation system. The underlying insulation should be level without any gaps or external debris that could compromise the quality of the reinforcement installation process.



Technical Specification

Dry bulk density

0.5mm

Composition

Portland cement, mineral fillers, polymers, organic admixtures, reinforcing fibres

Adhesion to concrete (air-dry)

≥ 0.3 MPa

Adhesion to polystyrene

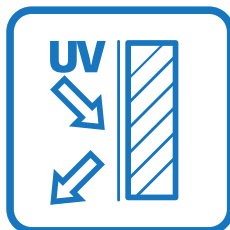
≥ 0.08 MPa
(rupture in thermal insulation material)

Soluble chromium (VI) concentration

≤ 0.0002%



SPRAY/HAND APPLIED



UV RESISTANT



QUICK DRYING



VAPOUR PERMEABLE

Directions for use.

Substrate Preparation

When using the EWI-220 Basecoat as a bedding adhesive for EPS insulation, ensure the surface is clean and free from any debris.

For uneven surfaces, consider using the EWI260 Levelling Mortar, which can be applied up to a thickness of 50mm to level out the substrate.

If the surface is dusty prior to starting the installation process, then consider using a jet wash first before coating the surface with the EWI-301 Water-based Substrate Primer. For painted surfaces, check for structural stability first, then consider using EWI-310 Universal Primer, which will create an abrasive surface ready for the EWI-220 Basecoat adhesive to key onto. When using the EWI-220 Basecoat as part of the basecoat / reinforcement layer, ensure the insulation boards are level prior to application.

Product Preparation

Pour the 25kg dry mix into 5.8 litres of clean cool water and mix thoroughly with an electric paddle mix to produce a consistent texture. Leave for 5 minutes and then mix again - the product is now ready for application.

Application

When using the EWI-220 as a bedding adhesive, applying the adhesive to the back of the EPS insulation board using an appropriate trowel. For uneven substrates, we recommend applying the adhesive to the perimeter of the insulation board with 3 additional dabs across the middle of the board. For flat substrates, you can apply the adhesive to the entirety of the insulation board using a notched trowel. Allow the adhesive to dry completely before attempting to install the mechanical fixings.

When using the EWI-220 as a basecoat adhesive, apply the adhesive to the insulation board using a 10mm notched trowel. Before drying, fibreglass mesh needs to be embedded within the basecoat adhesive. Works must be protected from rain, snow, strong winds and direct sunlight.

The average drying time for the bedding adhesive is 12-48 hours depending on weather conditions. The drying period may be significantly longer in low temperature and high relative humidity

Clean-up

All equipment must be washed with clean water immediately after use. Waste material should not be emptied into drainage systems.

Compliance with Standards

Storage

12 months when stored unopened in a dry environment above 5°C

Packaging

25kg Bag

Safety Measures

Wear protective goggles, gloves, respiratory equipment and protective clothing when mixing and using this product. Avoid contact with the eyes. In the event of eye contact, wash the affected area with plenty of cold water as soon as possible and seek medical attention. Do not ingest. Keep out of reach of children. Refer to material safety sheet for further information regarding first aid and protection recommendations. Contact with wet cement may cause irritation, dermatitis or burns. For further details, refer to our Health & Safety Data Sheets

Application Conditions

Substrate primer

EWI-301 or EWI-310

Application and setting temperature

5°C to 25°C

Water mix proportions

Approx 5.8L of water per 25kg of dry mix

Time to use after mixing with water

2 hours (temperature +20°C and air humidity approx. 60%)

Quantity to be used

approx. 4-5 kg/m²

Min/Max thickness

4mm-10mm