

EWI-225

Premium EPS Adhesive

Premium Adhesive is cement based, manufactured from a mixture of white Portland cement, texturing aggregate, mineral fillers, water repellent agent and hydrated lime.

This white Premium Adhesive can be used as a bedding adhesive for mineral wool insulation in EWI systems. It can also be used as a basecoat adhesive on both EPS or mineral wool insulation systems once a fibreglass mesh has been embedded within it. The Premium Adhesive is highly durable, elastic, quick drying and has excellent frost and water-resistant properties. Premium Adhesive should be stored correctly to ensure the product performs consistently throughout the application process. A high concentration of polymer-modified binders within the Premium Adhesive deliver very strong adhesion, better flexibility, higher crack resistance and improved durability.

Intended Uses.

Premium Adhesive should be installed with the fibreglass mesh to form the reinforcement layer on top the EPS or mineral wool 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. The Premium Adhesive is also used as the bedding-layer for the mineral wool thermal insulation system only (attaching the mineral wool to the substrate).



Technical Specification

Composition

white Portland cement, mineral fillers, synthetic fibres, polymers, modifying admixtures

Bulk density (dry mixture)

about 1.60 g/cm³

Adhesion to concrete (air-dry)

≥ 0.3 MPa

Adhesion to concrete (after freeze-thaw cycles)

≥ 0.3 MPa

Adhesion to foamed polystyrene (air-dry)

≥ 0.08 MPa
(foamed polystyrene rupture)

Adhesion to foamed polystyrene (after freeze-thaw cycles)

≥ 0.08 MPa
(foamed polystyrene rupture)

Adhesion to mineral wool

≥ 0.08 MPa (mineral wool rupture)



WATER
RESISTANT



FROST
RESISTANT



GOOD ADHESION
TO MINERAL WOOL



CONTAINS REINFORCING
FIBRES



HYDROPHOBIC



VAPOUR
PERMEABILITY

Directions for use.

Substrate Preparation

When using the EWI-225 Premium Adhesive as a bedding adhesive for mineral wool insulation, ensure the substrate surface is clean and free from any debris. For uneven substrate surfaces, consider using the EWI-260 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 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-225 Premium Adhesive to key onto. When using the EWI-225 Premium Adhesive as part of the basecoat / reinforcement layer, ensure the mineral wool insulation boards are level prior to application.

Product Preparation

EWI-225 Premium Adhesive comes as a 25kg of dry mix. Pour the dry mix into 6.5 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-225 as a bedding adhesive for the mineral wool, applying the adhesive to the back of the 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 through the mineral wool insulation boards.

When using the EWI-225 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.

Application Conditions

Substrate primer

EWI-301

Application and setting temperature (air, substrate, materials):

from +5°C to +25°C

Water mix proportions

approx. 6.5 l of water per 25 kg of dry mix

Time to use after mixing with water

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

Quantity of basecoat to be used to fix reinforced layer on mineral wool

approx. 5-6 kg/m²

Min/max thickness

4mm-10mm

Packaging

25 kg bags.

Storage

Shelf life: up to 12 months from the date of manufacture.
Keep dry and in the original undamaged packaging.

Safety Measures

Alkaline pH after mixing with water. Avoid contact with skin. Wear eye protection. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Clean-up

Wash tools immediately with clean water.

Compliance with Standards

PN-C-81913:1998 Dispersion paints for facade painting.

European Technical Approvals ETA - 15/0576 and ETA - 15/0575

BBA Approval Inspection Testing Certificate 18/5503