

EWI-220

EPS Basecoat

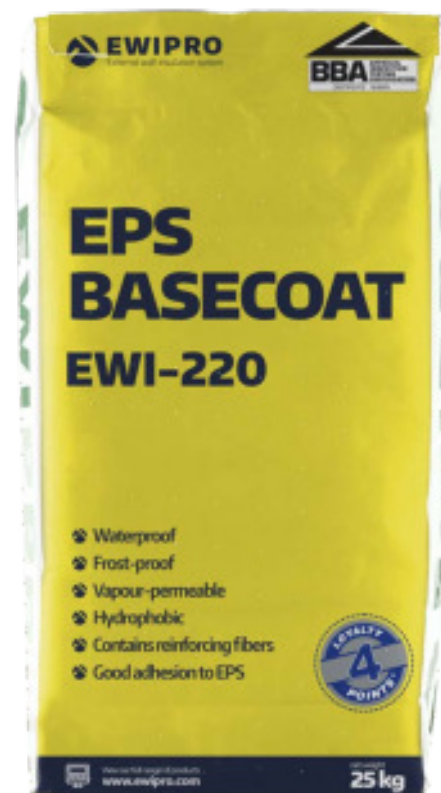
EPS Basecoat is a cement based adhesive. It is manufactured from a mixture of Portland cement, texturing aggregate, mineral fillers and hydrated lime. The grey cement based basecoat is used to embed in the fibreglass mesh as part of the reinforcement layer on polystyrene (EPS) thermal insulation systems.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

Composition

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

Bulk density (dry mixture)

about 1.45 g/cm³

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%

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



WATER
RESISTANT



FROST
RESISTANT



VAPOUR
PERMEABILITY



CONTAINS REINFORCING
FIBRES



GOOD ADHESION
TO EPS



HYDROPHOBIC

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 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-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.

Application Conditions

Substrate primer
EWI-301
Application and setting temperature (air, substrate, materials):
from +5°C to +25°C
Water mix proportions
approx. 5.8 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 to be used
approx. 4-5 kg/m ²
Min/max thickness
4mm-10mm

Packaging

25 kg bag.

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.