

# EWI-221

# WINTER ADHESIVE

The Winter adhesive is cement based, manufactured from a mixture of white Portland cement, mineral fillers and microfibres. Much like our other adhesives, the adhesive can be used as both a bedding adhesive for EPS insulation systems, and as a basecoat adhesive on EPS systems once a fibreglass mesh has been embedded within it.

The key difference is that the Winter Adhesive can be used at temperatures down to zero degrees, making it perfect for cold weather installations. It is highly durable, elastic and quick drying, offering long-lasting performance that will stand the test of time.



## Intended Uses.

Intended for use in cold weather installations, the Winter Adhesive can be used in render-only and EPS insulation systems as an adhesive and a basecoat. When used to create a basecoat layer prior to rendering, the Winter Adhesive should be installed with fibreglass mesh embedded.

## Technical Specification

### Dry bulk density

1.45 g/cm<sup>3</sup>

### Composition

Portland cement, mineral fillers, polymers, refining agents and microfibres.

### Adhesion to concrete (air-dry)

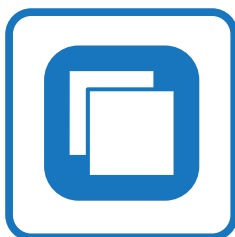
≥ 0.3 MPa

### Adhesion to polystyrene

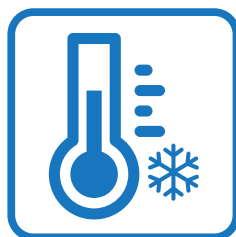
≥ 0.08 MPa  
(rupture in thermal insulation material)

### Soluble chromium (VI) concentration

≤ 0.0002%



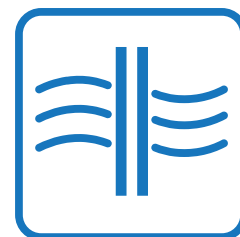
**BASECOAT OR ADHESIVE**



**LOW TEMPERATURE APPLICATION**



**FROST-PROOF**



**VAPOUR PERMEABLE**

# Directions for use.

## Substrate Preparation

When using the EW-221 Winter Adhesive as a bedding adhesive for EPS insulation, ensure the surface is clean and free from any debris.

For uneven surfaces, consider using the EW260 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 EW-301 Water-based Substrate Primer. For painted surfaces, check for structural stability first, then consider using EW-310 Universal Primer, which will create an abrasive surface ready for the EW-220 Basecoat adhesive to key onto. When using the EW-220 Basecoat as part of the basecoat / reinforcement layer, ensure the insulation boards are level prior to application.

## Product Preparation

EW-221 Winter Adhesive comes as a 25kg dry mix. Pour the dry mixture into 6.3 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 EW-221 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.

After fixing the insulation boards to the substrate and leaving to dry for 3 days, use the EW-221 adhesive for the reinforcement basecoat layer. Apply to the insulation boards using a 10mm notched trowel, and before drying embed fibreglass mesh within the basecoat adhesive. Works must be protected from rain, snow, strong winds and direct sunlight.

## 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

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

## 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

EW-301 or EW-310

### Application and setting temperature

5°C to 25°C

### Water mix proportions

approx. 6.3L of water per 25kg of dry mix

### Time to use after mixing with water

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

### Min/Max thickness

4mm-10mm