

# 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

### Composition

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

### Bulk density (dry mixture)

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

### 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-221 Winter Adhesive as a bedding adhesive for EPS insulation, ensure that the substrate surface is clean and free of 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, use a jet wash first before coating the surface with the EWI-301 Water Based Primer. For painted surfaces, check for structural stability first, then consider using the EWI-310 Universal Primer, which will create an abrasive surface ready for the EWI-221 Winter Adhesive to key onto. When using the EWI-221 as part of the basecoat reinforcement layer, ensure the EPS boards are level prior to application.

## Product Preparation

EWI-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 the EWI-221 as a bedding adhesive for the EPS, apply 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 EPS boards.

After fixing the insulation boards to the substrate and leaving to dry for 3 days, use the EWI-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.

## Application Conditions

<b>Substrate primer</b>
EWI-301
<b>Application and setting temperature</b> (air, substrate, materials):
from 0°C to +25°C
<b>Water mix proportions</b>
approx. 6.3 l of water per 25 kg of dry mix
<b>Time to use after mixing with water</b>
about 2 hours
<b>Min/max thickness</b>
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 the 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.