

Insulation Adhesive

Application Guide



Wonderbuilds Insulation adhesive is a high performance, single component polyurethane roofing adhesive, developed specifically for the bonding of rigid insulation boards to a variety of roof decks and vapour control layers. The Insulation Adhesive reacts with moisture resulting in a foaming reaction which then cures forming a permanent, strong bond that withstands both high and low temperatures. The product has been formulated to meet environmental standards, as it contains no solvents or VOCs.

Product Information

Wonderbuilds Insulation was developed to allow simple and cost-effective bonding of flat roofing insulation materials, whilst remaining both environmentally and health and safety friendly as possible.

Wonderbuilds Insulation adhesive is extremely versatile; it can adhere a wide range of insulation materials including XPS, EPS, PIR, PUR, foil faced, tissue faced and mineral wool. Furthermore, these materials can then be adhered to the wide variety of substrates such as concrete, OSB, plywood, existing asphalt, bituminous systems and more.

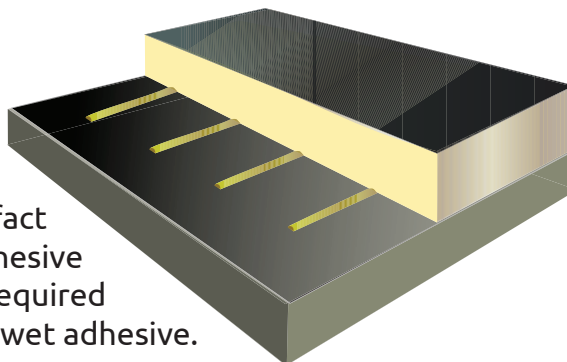


The adhesive is VOC free, odour free and non-flammable making it the ideal product for sensitive areas of application, where health and safety is of the utmost importance to the client. Due to its water and chemical resistance it is the ideal adhesive to ensure a strong, permanent bond that will stand the test of time.

- Propellant free packaging, simple disposal
- No release of volatile solvents to the atmosphere
- Damp surface friendly
- Cold applied
- Strong permanent bond
- Easy application

Application Benefits

Application of Wonderbuilds Insulation does not require any additional tools, this makes using it incredibly simple. This product is also cost-effective as it will reduce labour costs by time saving and the fact that no investment in equipment is required. The adhesive is simply beaded from the can onto the deck at the required coverage rate and the insulation panels laid into the wet adhesive.



Insulation Adhesive is the ideal alternative to 'hot works', as it eliminates the need for naked flames on a roof- thus reducing insurance premiums and hazards to the health and safety of both contractors and the construction site - ensuring all risks are kept to an absolute minimum.

Application Method

- Ensure the roof area to be bonded is solid, dry clean and free from ponded water.
- Do not apply if rain is imminent, remove all ponded water and allow at least 1 hour drying before applying the adhesive.
- For partial bonding, apply beads at 250mm centres for normal roof exposures. When bonding in more critical areas & roof perimeters as determined through wind up-lift calculations for the project in question, apply adhesive in beads at 175mm centres.
- Once applied the insulation boards must be pressed into place within 10-15 minutes at 20°C. It is recommended to check that the adhesive has fully transferred to the board by carefully lifting a corner to ensure the beads have been squeezed flat.
- The curing time of the adhesive is dependent upon the temperature and humidity however, curing will normally occur within 1 hour.
- Please note increased coverage rate is required when adhering un-faced stone wool insulation. Coverage rates can be obtained by contracting the technical department to discuss your requirements.
- Read material safety data sheet prior to use.

Important Information

- Do not apply to wet roofs
- Do not use below 5°C. The adhesive will not cure and no bond will be formed
- Do not apply more adhesive than can be covered in 15 minutes.
- Please read through the products material safety data sheet prior to use.

Chemical Base	Polyurethane
Solids Content	100%
Flammability	No Flash Point
Viscosity	6000 - 10,000cps @ 20°C
Chemical Resistance	Resistant to water, dilute acids, alkalis and aliphatic oils
Application Temp.	5 - 30°C
Service Temp.	-20 - +120°C
Cure Rate	60 mins @ 10°C 30 mins @ 20°C 15 mins @ 30°C
Coverage Rate	Normal Roof Exposures: 40 - 60m ² (100 - 150g/m ²) Roof Perimeters: 30 - 40m ² (150 - 210g/m ²)

The information presented on this data sheet is not intended as a formal technical specification and should only be taken as a guideline. We recommend that adhesion tests are carried out before application. Should you have any queries please contact our technical department for further assistance. Please note for some existing substrates such as PVC, TPO, EPDM etc. a primer would be required prior to use of this adhesive, contact us for information on our range of primers.