

# Alumasc QC Insulation Adhesive

## PRODUCT DESCRIPTION

A high foaming two component polyurethane adhesive which not only bonds the insulation; but also contains no volatile solvents in order to meet environmental standards. Once applied, the adhesive reacts to form a permanent polyurethane bond with excellent adhesion and flexibility even at very low temperatures.

QC Insulation Adhesive was developed to allow simple, uniform and precise on-site application whilst remaining as environmentally and health and safety conscious as possible.

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

QC Insulation adhesive is manufactured from bio renewable materials and is VOC and odour free making it the ideal product for sensitive areas of application, where health and safety is of the utmost importance to the client.

It is also an ideal adhesive for swift application as the product is rapid curing, and can secure materials in as little as 10 - 15 minutes from application.

## APPLICATION BENEFITS

- QC Insulation Adhesive is supplied in 1500ml twin cartridges (packed 4 cartridges per box together with 6 mixer tubes), or 400ml twin cartridges (packed 6 cartridges per box together with 8 mixer tubes).
- Ensure the roof deck is dry - do not apply if there is any standing water.

## APPLICATION

- Unscrew the plastic cover from the cartridge head and remove the red insert - if you plan on reusing the cartridge, clean the tips to prevent cross-contamination when reinserted in the cartridge head.
- Screw on the plastic mixer tube ensuring it is tightly secured.
- Place the cartridge in the applicator gun.
- Dispense a small amount of adhesive until a consistent green colour is achieved. Apply the adhesive in parallel beads 6 - 12mm in size. Beads should be 300mm apart for normal roof exposure or 200mm apart for roof perimeters and critical areas.
- The insulation boards should be placed immediately into the wet adhesive. The boards will be bonded within 10 minutes and work can continue.
- If the mixed adhesive is left standing in the plastic mixer tube for more than 20 seconds it will thicken and a new mixer tube will be required.
- Read the product's Safety Data Sheet prior to use.

## CHARACTERISTICS / ADVANTAGES

- Cold applied
- Consistent mixing through the static mixer nozzle
- No release of volatile solvents to the atmosphere
- Strong, permanent bond
- Polymeric, remains flexible
- Propellant free packaging with simple disposal

## APPLICATION BENEFITS

- The QC Insulation Adhesive is applied using an applicator gun, allowing for easy, precise and rapid installation. The mixing element ensures the two components are thoroughly mixed, removing the possibility of human error and ensures the correct bead size is applied to the deck. As the adhesive cures in 10 minutes it allows for quick installation of insulation panels - allowing for waterproofing membranes or liquids to be subsequently applied with minimal delay.

The reaction between the two components produces a foam which has been developed to be low density, ensuring that boards aren't lifted when the foaming reaction begins. The foam will spread horizontally to fill and make contact should any undulations be present.

## PRODUCT INFORMATION

<b>Chemical Base</b>	<b>Polyurethane</b>
<b>Solids Content</b>	100%
<b>Flammability</b>	No Flash Point
<b>Viscosity</b>	Part A: 7500 - 12,500cps @ 20°C Part B: 1500 - 2500cps @ 20°C
<b>Chemical Resistance</b>	Resistant to water, dilute acids, alkalis and aliphatic oils.
<b>Application Temp.</b>	0 - 30°C
<b>Service Temp.</b>	-20 - +120°C
<b>Cure Rate</b>	10 mins @ 20°C
Typical Coverage Rate	Normal Roof Exposures: Main roof - approx 9m <sup>2</sup> /l (beads @ 300mm centres) Perimeters - approx. 6m <sup>2</sup> /l (beads @ 200mm centres) Refer to project specification for more accurate usage rates
Colour	Part A: Blue   Part B: Yellow   Mixed: Green

### Health & Safety

Safety Data Sheets are available upon request, and can also be downloaded directly from [www.alumascroofing.co.uk](http://www.alumascroofing.co.uk)

### Technical Support

Technical advice is available from Alumasc Technical Services at:

Tel: +44 (0)1744 648400

Email: [technical@alumascroofing.com](mailto:technical@alumascroofing.com)

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