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# Icopal T.P.M. Membrane Adhesive

## Roofing Adhesives

### Description

Icopal T.P.M. Membrane Adhesive is a non-foaming two-part rapid curing polyurethane adhesive. The adhesive contains no volatile solvents. It is supplied in a 1500 millilitre twin cartridge and is applied using a battery powered applicator gun. The product is packaged 4 cartridges per box, together with 6 mixer tubes.

Icopal T.P.M. Membrane 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 to 15 minutes from application.

### Intended Use

Icopal T.P.M. Membrane Adhesive is intended for use as an adhesive to bond a range of waterproofing membranes, such as Icopal Universal or TorchSafe M.A., to various compatible substrates.

Icopal T.P.M. Membrane Adhesive forms a strong, permanent bond with excellent adhesion and flexibility even at low temperatures. Icopal T.P.M. Membrane Adhesive was developed with the purpose of allowing for simple, uniform and accurate application on-site whilst remaining both as environmentally and health and safety friendly as possible.

### Benefits

- Propellant-free packaging, simple disposal
- Consistent mixing through static mixer nozzle
- No release of volatile solvents to the atmosphere
- 100% non-foaming adhesive
- Cold applied, easy application
- Polymeric, remains flexible
- Membrane secured within 10 minutes
- Strong permanent bond

### Application Benefits

Icopal T.P.M. Membrane Adhesive is applied using a powered mixing 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 substrate.

As the adhesive is rapid curing in 10 minutes it allows for quick installation of waterproofing membranes, thereby ensuring the roof is watertight and secure with minimal delay.

As the adhesive is non-foaming it ensures that an aesthetically pleasing finish to the membrane is achieved.

### Properties

Size	1500 ml
Coverage per 1500 ml	@250 mm ctrs: 10 m <sup>2</sup> @150 mm ctrs: 7 m <sup>2</sup>
Chemical Base	Polyurethane
Solvents	None
Flammability	Non-flammable
Colour	Part A: Blue; Part B: Yellow; Mixed: Green
Application Temperature	0 to 30°C

### Compatibility

Icopal T.P.M. Membrane Adhesive can adhere a range of waterproofing membranes, such as bituminous membranes, to a range of absorbent and non-absorbent insulation boards. It can adhere to the following insulation types:

Tissue and foil faced PIR insulations boards, expanded polystyrene (EPS), bitumen faced insulation boards, extruded polystyrene (XPS), cellular glass insulation boards, cork insulation boards.

Compatible substrates include: plywood/OSB, concrete, existing aged bitumen roof coverings, mastic asphalt (sand rubbed) and mineral or sand surfaced bitumen roofing.

For other materials not listed above, it will be necessary to carry out preliminary adhesion tests and observe insulation and membrane manufacturer's instructions.



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### Surface Preparation

Ensure the substrate is structurally sound and free of surface laitance, oils, grease, dirt, frost, moss, lichen, loose material and any material which would hinder adhesion. Ensure the substrate is dry and free of standing water.

### Set-up Procedure

- 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 reinserting into the cartridge head.
- Screw on the plastic mixer tube, ensuring it is tightly secured.
- Place the cartridge in to the applicator gun.
- Dispense a small amount of adhesive until a consistent green colour is achieved.

### Application

- Apply the adhesive in parallel beads 6 – 12 mm in size. Beads should be at 150 mm centres for roof perimeters and critical areas, and 250 mm centres for normal roof exposures. Alternatively, centres should follow the specific wind uplift calculations for the project in question.
- The membrane should be immediately rolled into the wet adhesive. The membrane will be bonded within 10 minutes, and work can continue. When sealing membrane laps, ensure a continuous bead of adhesive is applied to the lap to ensure waterproof lap security is achieved.

**Important Note:** 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.

Please read through the product material safety datasheet prior to use.



### Storage

Icopal T.P.M. Membrane Adhesive should be stored on a clean, level surface under cover and unopened in dry conditions, at temperatures between 5 °C and 25 °C.

### Disposal

Icopal T.P.M. Membrane Adhesive cures when mixed and the pistons in the applicator gun ensure all adhesive residue is removed from the cartridge. Once mixed the adhesive becomes inert. Any material within the nozzle will have already mixed and cured within ten minutes and can be disposed in accordance with local/national waste disposal regulations.

### Technical Services

Specialist advice and design guidance on all matters relating to Icopal T.P.M. Membrane Adhesive is freely available from our Technical Department at the address below.

### Availability

Item Code	Description	Size
3102853	Icopal T.P.M. Membrane Adhesive	1.5 L
3103023	Icopal TP Applicator Gun Kit	-

NOTE: This information is given in good faith being based on the latest knowledge known to Icopal Limited. Whilst every effort has been made to ensure the contents of the publication are current while going to press, customers are advised that products, techniques and Codes of Practice are under constant review and liable to change without notice. Up to date information is available from our Technical Services Department on request.

Responsibility cannot be accepted for the application of products, and no claims can be considered, where the manufacturer's instructions have not been followed. The user should not assume, based on information provided in this sheet, that the product is suitable for any abnormal use.

All products are sold subject to our standard conditions of sale, available on request.