

# Technical Data Sheet

## RTT – Waterproof Sealant

Extremely strong and flexible seamless membrane



### DESCRIPTION

RTT – Waterproof Sealant is a modified elastomeric bitumen emulsion specifically formulated to be applied by brush, roller or specially designed spray equipment. RTT – Waterproof Sealant is a cold applied single component product designed for a wide range of protective coating applications. The product technology used in RTT – Waterproof Sealant provides a solvent-free, quick setting coating that produces the ultimate seamless waterproof membrane with excellent strength and flexibility. RTT – Waterproof Sealant is an environmentally friendly waterproofing product that can be applied indoors and outdoors with no special protective equipment.

### TESTING APPROVALS AND STANDARDS

RTT – Waterproof Sealant is compliant with the following standards:

- CSIRO Technical Assessment No: 337 - Satisfying requirements of a Class III membrane as stated in AS3740:2004 'Waterproofing of Wet Areas in Residential Buildings'
- CSIRO Compliance Assessment Report No: 3877 - AS4858:2004 'Wet area membranes'
- NATA Accredited Testing of RTT Sealant to AS 4654.1 (Waterproofing membranes for external above-ground use) by XTec Gen Pty Ltd - Report Number 0114-1 AS4654.1
- Australian Water Quality Centre Report ID: 123416 - AS4020:2018 'Products for use in contact with drinking water'

### FEATURES

- Non toxic
- VOC and solvent free
- Easy to use and repair
- Odourless and non flammable
- Excellent adhesion
- Good chemical resistance
- Extremely strong and flexible
- Water based
- Suitable for interior or exterior use
- Permanently flexible

### USES

RTT – Waterproof Sealant is primarily used as a protective coating to prevent water ingress and corrosion damage. It can be used for corrosion protection of ferrous materials and is also effective for noise and vibration reduction. RTT – Waterproof Sealant can be applied to roofs, tanks, troughs, retaining walls, planter boxes, slabs, wet areas and decks. It will stick to masonry, bricks, pavers, render, cement sheeting, concrete, steel and wood.

### LIMITATIONS

RTT – Waterproof Sealant is mildly alkaline. It cannot be used where petrol or diesel will be present. When applying this product, observe appropriate safety precautions (wear gloves, eye protection and other suitable protective equipment). For further information please consult the product SDS. RTT – Waterproof Sealant should not be applied when the ambient temperature is below 10°C, the uncured membrane may be damaged if frozen. Do not apply to wet surfaces or if rain is imminent.

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### TECHNICAL DATA

Property	Results
Specific gravity (liquid)	1.0 g/cm <sup>3</sup>
Odour	None
VOC	None
Solvents	None
Colour	Brown to black
Solids (% by wt)	53 – 58
Viscosity (Brookfield, sp. #5, 20 rpm)	8000 – 9000
pH	9 – 12

Performance (cured membrane)	Results
Colour	Black
Specific gravity	1.0 g/cm <sup>3</sup>
Chemical resistance	Resistant to most inorganic solutions. Not for use with gasoline or other petroleum products.
Biological resistance ASTM E 154; ASTM 0412	Passed (> 90% original value)
Impact resistance CSB37-GP-56	Passed (168lbs @ 23°C)
Water tightness after impact CSB37-GP-56	Passed (Zero leakage)
Tensile strength ASTM 0412	90 psi
Bond strength ASTM C794	115.49 N
Elongation	>1800%
Temperature resistance AMTM004	0.41 g/m <sup>2</sup> /day
Water vapour transmission ASTM E96	-0.22 g/m <sup>2</sup> /day
Accelerated weathering ASTM G 155	Passed (Zero deterioration)
Hardness - Durometer Type 00	85 – 87 A
Hardness ASTM D2246	50 A
Salt Fog Corrosion - Steel ASTM D412	Passed (1000 hours)
Surface Corrosion ASTM D610	Zero corrosion after 500 hours 0.03% after 1000 hours
Adhesion to concrete ASTM C907	0.76 MPa
Puncture resistance CGSB 37-GP-56	No punctures

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### **APPLICATION INSTRUCTIONS**

RTT – Waterproof Sealant is a water based, environmentally safe alternative to conventional heat-applied or solvent based waterproofing systems. When cured it will form the ultimate seamless flexible membrane. It is a single component product that may be applied by brush, roller, poured on or spray applied using specially designed spray equipment. RTT – Waterproof Sealant cures by evaporation, so an application temperature of 15 - 40°C is recommended. It completely cures within 24 hours at 30°C and 50% relative humidity when applied at a thickness of 1mm. It should only be applied to a dry surface which is free of dirt, debris, oil or grease. Application is not recommended if heavy rain is imminent, or in high humidity environments. For best results apply in thin coats and leave to dry for at least 12 hours. Joints or cracks in the surface should be reinforced using RTT Geo Textile. In high pressure areas use RTT Seam Tape. Apply RTT Quick Dry Spray after final coat to set product, reduce tackiness and accelerate curing. See application instructions or consult with an RTT Sealant representative for further details.

RTT – Waterproof Sealant can be applied between 1.2 – 4.2 L/m<sup>2</sup> for a dry film thickness of 1mm – 3mm protective membrane. Typically it dries to the touch in one minute @ 30°C and is completely cured in 48 hrs. Curing time may vary depending on temperature and relative humidity.

### **CAUTION**

For industrial use only. Keep out of reach of children. Store in a cool dry place. Avoid storage below 5°C. Please consult the product SDS before using RTT – Waterproof Sealant.

THIS PRODUCT IS NOT SUBJECT TO CONTROLLED PRODUCTS OR DANGEROUS GOODS REGULATIONS.

### **TECHNICAL ADVICE**

Call RTT Sealant: 1300 MEMBRANE (1300 636 272) or 0431 250 418  
Email RTT Sealant: [info@rttsealant.com](mailto:info@rttsealant.com)  
Prepared by: Imocave Pty Ltd TA RTT Sealant  
Preparation date: 07 Aug 2023

### **DISCLAIMER**

Customers are advised to consider the information in this data sheet in the context of how the product will be used, including surfaces and any other products used. The information provided in this data sheet represents our best scientific and practical knowledge. Any advice, information or assistance provided by Imocave Pty Ltd TA RTT Sealant in relation to its products is given in good faith, however is provided without liability or responsibility. Due to the wide variety of site conditions we are unable to assume liability for any loss that may arise from the use of our products. The user is responsible for checking the suitability of products for their intended use.