

▶ Description



TamSeal RC is a flexible elastomeric liquid applied membrane specifically designed to waterproof a variety of external surfaces. Enhanced UV resistant properties create a product that can be used as a weatherproof membrane with flexibility and durability. TamSeal RC offers long-term protection against varying climate conditions for external substrates. Suitable for use over horizontal and vertical surfaces, TamSeal RC resists fungi and algae growth and prevents salt and carbon attack to the substrate.

The standard colours are white and light grey.

▶ Key Benefits

- Water based - TamSeal RC contains no toxins or dangerous odours and is free of solvents and hazardous materials. The coating is environmentally safe and spillages can be cleaned with water whilst still wet.
- Elastomeric and flexible - Flexible properties enable this product to accommodate normal substrate surface movement without rupture.
- Waterproof and UV resistant - When applied to the correct thickness, the cured membrane exhibits excellent long-term resistance to UV light and climate exposure, providing a durable weatherproof membrane.
- Resistant to fungi and algae growth - TamSeal RC resists the growth of fungi and algae preventing organic staining and subsequent removal maintenance costs.
- Resistant to salt and carbon attack – TamSeal RC cured membrane will resist deterioration from salt and carbon attack. The membrane is therefore ideal for facades and other exposed surfaces subject to aggressive conditions.

- Tough and durable – TamSeal RC forms a tough and durable membrane providing long-term protection to the substrate. Once cured, the membrane can withstand light foot traffic.

▶ Typical Applications

- TamSeal RC is suitable for use in commercial, residential and industrial applications
- New and existing roofs
- Podiums decks
- Parapet walls
- Vertical walls & facades
- General weather exposed surfaces

Substrates suitable for TamSeal RC include: concrete, masonry brick, cement renders, asphalt, fibre reinforced cement sheet, plasterboard, wet area timber sheeting, clay and concrete blocks/bricks, treated metals and other TamSeal membranes/products. When using over existing paints and membranes, contact Tam Technical Department for advice on surface preparation and suitability.

▶ Technical Data

TamSeal RC	
Appearance	Viscous liquid
Density	1.15
Shore A hardness (ASTM D2240-97)	55
Elongation ASTM D412: 1998a)	> 450%
Tensile strength (ASTM D412: 1998a)	> 1.8N/mm ²
Adhesion to substrate (ASTM 4541: 1995)	0.75N/mm ²
Crack bridging (ASTM C836: 1995)	No cracks
UV Exposure: 1000hrs (ASTM G 154: 2000a)	No disintegration, blisters, cracks, crazing, swelling or peeling observed.
Bend test (SS 5 Part F1: 2003)	No cracking or detachment from substrate

All technical data stated herein is based on tests carried out under laboratory conditions.

▶ Application Guidelines

When using over asphalt or bitumen surfaces, dilute TamCrete Bond and Seal with 1 part water and apply as a primer. This primer is also recommended when applying to steel surfaces.

Surface Preparation

All substrates must be dry, structurally sound and thoroughly cleaned and free from oil grease, release agents, loose material and sharp protruding surfaces. All voids, large cracks and other defects in the concrete or mortar substrates should be filled with a repair compound incorporating TamCrete 46 SBR. All substrates must be constructed to the relevant building standards and manufacturer's recommendations at the time of membrane application.

Application Method

Reinforcement can be provided using fibreglass reinforced mat, which is embedded between each coat of the membrane. When applying the fibreglass-reinforcing mat, ensure the mat is applied into a wet coat. Once applied, the mat should be over coated with subsequent coats of TamSeal RC until the reinforcement mat is no longer visible. The fibreglass mat will provide reinforcement to joint and crack locations protecting against membrane rupture.

Note: At junctions or substrate abutments, polyurethane sealant is to be used as a bond breaker fillet (3 - 6mm) before the application of a suitable reinforcing fabric.

TamSeal RC can be applied using a medium to long nap roller, long bristle brush or using a suitable spray unit. Apply all subsequent coats in the opposite direction to the previous coat.

Drying time will vary depending on ambient temperature, relative humidity and substrate surface porosity. The tack free time for the first coat is approximately 30 - 60 minutes. The second coat can be applied typically 2 - 3 hours after the first coat has tacked off. Overall drying time is 24 hours depending on ambient conditions.

▶ Coverage

A minimum total cover of 1.5 litres/m² should be achieved with two coats, resulting in a total dry film thickness of 1.2mm. When applying to facades, an application rate of 0.8 - 1.0 litres/m² per coat is recommended.

Coverage is dependent upon surface condition and will vary, as uneven surfaces will require greater application rates to achieve the recommended/specified dry film thickness. Coverage may be less when applied using a brush or roller as well as on uneven surfaces.

Cleaning

Thoroughly clean all tools and equipment with water after use.

Limitations

- Do not apply to areas subject to heavy foot or vehicle traffic.
- Do not use on substrates that are not dry or when inclement weather is imminent.
- Do not use where the substrate surface temperature is below 10°C or above 35°C.
- Roofs and floor surfaces should have adequate falls before coating with TamSeal RC.
- Not to be applied over glass or glazed surfaces.
- Not designed as a sealant for expansion joints.
- Contact your local TAM International representative before applying over existing coatings, membranes etc. for surface preparation details.
- Do not apply solvent-based adhesives over the cured membrane.
- Technical enquiries regarding application, surface preparation or suitability should be forwarded to your local TAM International representative.

▶ Storage

TamSeal RC should be stored at room temperature (min 10°C and max 38°C), kept dry and out of direct sunlight. If these conditions are maintained and the product packaging is unopened, then a shelf life of 1 year can be expected.

▶ Health & Safety

TamSeal RC should only be used as directed. We always recommend that the Health & Safety data sheet is carefully read prior to application of the material. Our recommendations for protective equipment should be strictly adhered to for your personal protection. The Health & Safety data sheet is available upon request from your local TAM International representative.