

▶ Description



TamSeal 23 is a “coal tar free” liquid applied, single component polyurethane waterproofing membrane (based on modified Bitumen). It cures by reaction with atmospheric moisture to give a continuous seamless film which is rubbery, elastic and tough. TamSeal 23 cures to become a permanently flexible seamless membrane, which by virtue of its chemical reactivity in its wet state, has good adhesion to a wide range of substrates. TamSeal 23 is elastomeric and is not adversely affected by extremes of temperature. It allows for expansion and contraction over a broad range of temperatures and maintains flexibility and waterproofing properties.

▶ Key Benefits

- Single-component, apply directly from pail, no mixing is required.
- Cold applied by spray, roller or by trowel.
- Fully bonded system, excellent continuous adhesion and prevents lateral migration of water.
- Capable of bridging cracks up to 2mm
- Resistance to bacterial growth
- Can be applied over concrete, brick, wood, cement block, metal and most other surfaces.

▶ Typical Applications

- Planter boxes, kitchens, toilets, balconies & shower areas.
- External basement wall & slabs

- Waterproofing intermediate slabs, such as parking decks, courtyard areas or roof decks.
- Swimming pools
- Remedial repairs to concrete roof surfaces
- External wall and foundations

▶ Technical Data

TamSeal 23	
Density	1.2
Viscosity	4500cps
Solids, (% min.)	89
Flash point	51°C
Application limits	5 - 48°C
Approx. dry time (25°C, 65% RH)	15 - 20 hours touch dry 7 day full cure
Ultimate elongation	600 % - 800 %
Tensile strength	2.1N/mm <sup>2</sup>
Shore A hardness	45
Water vapour permeability	30g / m <sup>2</sup> / 24hrs
Recovery at 350% Elongation	98 %
Crack bridging	2 – 3mm
Adhesion strength	1.2N/mm <sup>2</sup>
Water penetration	No water penetration
High temperature aging 14 days @ 82°C	No effect
Tear resistance	9.5N/mm <sup>2</sup>
Set time	24 - 48 hours
Resistance to chemicals & fungus	Excellent
Water absorption	1.5%
Chemical resistance	No disintegration, blistering, swelling, cracking or crazing
a) 0.5% NaOCl	
b) 1.25% HN <sub>4</sub> OH	
a) 3.7% HCl	

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

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▶ Application Guidelines

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### Surface Preparation

- All surfaces must be thoroughly clean, sound, dry, relatively trowelled with a smooth finish and free from dust, oil and other contaminants.
- All structural cracks shall be repaired with TamRez Epoxy Resin. Honeycomb to be treated with TamCrete repair mortar.
- Substrates shall be pitched to drains.
- Priming of good quality and dense concrete is not necessary.

### Application Method

- TamSeal 23 can be applied with brush or roller to a thickness of 1.25mm (50 wet mils). Apply directly from the pail without mixing and no thinning is required.
- Shrinkage cracks shall be pre-treated with TamSeal 23 extending 50mm on either side of crack for lapping. Structural joints shall be lapped at 100mm at both sides.
- Application around (pipe) penetration, apply in two applications of 1.25mm of TamSeal 23 and when this is set, apply full membrane system.
- Toluene and Xylene may be used as solvent for TamSeal 23 to form a priming coat over porous surfaces followed by application of 2 coats of TamSeal 23.
- Should a flood test be conducted; membrane must be cured (24 hours minimum) before flooding. Flood the entire area with water to a minimum depth of 25 – 50mm and allowing the water to stand for at least 24 hours.

### Curing

- Lower temperature and/or humidity may affect the curing time of the membrane.
- Avoid tampering during curing.
- When fully cured, a seamless film of membrane is formed and bonds to the applied surface.

### Limitations

- Do not use on substrates that are not dry or when rain is imminent.
- Do not use in areas subject to rising damp or negative hydrostatic pressure.

- TamSeal 23 is not designed to be left exposed externally or exposed to regular foot traffic.
- Not designed as a sealant for expansion, control or structural joints.
- Technical enquiries regarding application, surface preparation or suitability should be forwarded to your local TAM International representative.

### Coverage

Approximately 1m<sup>2</sup> per litre when applied at thickness of 1.25mm (50 wet mils). Coverage may vary with the texture and porosity of the substrate.

### Protection

After curing of TamSeal 23, the cured membrane must be protected immediately by installer against damage or misuse by other trades until the floor overlay or backfilling is installed.

### Repairs

Minor damage to TamSeal 23 can be repaired by removing loose membrane and cleaning the surrounding area. Overlap TamSeal 23 by 150mm in two coats.

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▶ Storage

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TamSeal 23 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 12 months can be expected.

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▶ Health & Safety

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TamSeal 23 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.