

▶ 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 and 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 bacteria 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 % |
| Recovery at 350% Elongation | 98 % |
| Tensile strength | 2.1N/mm ² |
| Shore A hardness | 45 |
| Water vapour permeability | 30g / m ² / 24hrs |
| Crack bridging, 2mm | No cracks |
| Adhesion strength | 1.2N/mm ² |
| Water penetration | No water penetration |
| High temperature aging 14 days @ 82°C | No effect |
| Tear resistance | 9.5N/mm ² |
| 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 ₄ OH a) 3.7% HCl | |

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

▶ Application Guidelines

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 tempering 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 1m² per litre when applied at thickness of 1.25 mm (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.

▶ Storage

TamSeal 23 should be stored at room temperature (min 10°C and max 35°C), kept dry and out of direct sunlight. If these conditions are maintained and the product packaging is unopened, then a shelf life of 6 months can be expected.

▶ Health & Safety

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.