

Polyurethane Liquid Applied Waterproofing Membrane

DESCRIPTION



TamSeal 23 is a "coal tar free" liquid applied, single compound based on bitumen modified, polyurethane waterproofing membrane. It cures by reaction with atmospheric moisture to give a continuous seamless film which is rubbery, elastic and tough resilient film.

TamSeal 23 cures to a permanently flexible seamless membrane, which, by virtue of its chemical reactivity in the 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 expansion and contraction over a broad range of temperature 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 2 mm
- > 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	
Specific gravity	1.2 ± 0.05
Viscosity (cps)	4500 ± 1000
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	2.1 MPa
Shore A hardness	45
Water vapour permeability	30 g / m ² / 24hrs
Crack bridging, 2mm	No cracks
Adhesion strength	1.2 MPa
Water penetration	No water penetration
High temperature aging 14 days @ 82°C	No effect
Tear strength, average	9.5 MPa
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.

Whilst any information and/or specification contained herein is to the best of our knowledge, true and accurate, we always recommend that a trial be carried out to confirm suitability of the product. Please note regional climatic conditions may cause a variation in the performance of the product. No warranty is given or implied in connection with any recommendations or suggestions made by us or our representatives, agents or distributors. The information in this data sheet is effective from the date shown and supersedes all previous data. Please check with your local Normet office to confirm that this is current issue.

APPLICATION GUIDELINES

Surface Preparation

- > Concrete surfaces to receive TamSeal 23 shall be free from dust, oil and other contaminants. It shall be clean, sound, dry and relatively trowelled smooth finish.
- > 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 1.25 mm (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 50 mm on either side of crack for lapping. Structural joints shall be lapped at 100 mm at both sides.
- > Application around (pipe) penetration, apply in two applications of 1.25 mm (50 wet mils) 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 - 50 mm 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 Normet representative.

Coverage

Approximately 1.25 m² per litre when applied at thickness of 1.25 mm (50 wet mils) over 2 coats. Coverage may vary with the substrate condition (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 150 mm in two coats.

PACKAGING

TamSeal 23 is supplied in 22 kg drum. Packaging size may vary subject to local regulations and requirements.

STORAGE

TamSeal 23 should be stored at room temperature (min 10°C and max 45°C), kept dry and out of direct sunlight. If these conditions are maintained and the product packaging is unopened, then a shelf life of one year can be expected.

HEALTH & SAFETY

TamSeal 23 should only be used as directed. We always recommend that the Safety Data Sheet (SDS) is carefully read prior to application of the material. Our recommendations for protective equipment should be strictly adhered to for your personal protection. The Safety Data Sheet is available upon request from your local Normet representative.