TamSeal 23E

Liquid-applied PU Waterproofing Membrane – Exposed Surfaces

normet
CONSTRUCTION CHEMICALS
TECHNICAL DATA SHEET

DESCRIPTION

TamSeal 23E is a single-component polyurethane membrane used for long-lasting waterproofing. TamSeal 23E is a liquid-applied, highly elastic, cold applied and cold curing. It cures by reaction with ground and air moisture. Its enhanced UV resistant properties enable this product to be used as a weatherproof membrane while remaining flexible and durable, offering long-term protection to substrates against climate conditions. It is suitable for use over horizontal and vertical surfaces.

KEY BENEFITS

- Simple application (roller or airless spray)
- When applied forms seamless membrane without joints or leak possibilities
- Maintains its mechanical properties over a temperature span of -30°C to +90°C
- Crack-bridging up to 2 mm
- Provides water vapour permeability
- Full surface adherence without any additional anchoring
- The waterproofed surface can be walked on
- If the membrane gets damaged, it can be easily repaired locally within minutes

TYPICAL APPLICATIONS

- Waterproofing of rooftops
- Waterproofing of balconies and terraces
- Waterproofing and protection of concrete construction like bridges, tunnels, etc.
- Waterproofing of metal surfaces

TECHNICAL DATA

TamSeal 23E		
Property	**Results**	**Test Method**
Composition	Polyurethane high-solids pre-polymer	--
Elongation at break	800 %	ASTM D 412
Tensile strength	7.0 MPa	ASTM D 412
Water vapor permeability	25.0 g/m^2/day	ISO 9932:91
Resistance to water pressure	No Leak (1m water column, 24h)	DIN EN 1928
Adhesion to concrete	2.1 N/mm^2 (concrete failure)	ASTM D 903
Hardness (Shore A scale)	65 $\pm$ 5	ASTM D 2240
Application temperature	5°C to 38°C	Conditions: 25°C, 50% RH
Tack free time	4 hours	
Light trafficking	8 hours	
Final Curing time	7 days	
Chemical Properties	Good resistance against acidic and basic solutions (10%), detergents, seawater, oils and lubricants.	

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

TamSeal 23E

Liquid-applied PU Waterproofing Membrane – Exposed Surfaces

normet
CONSTRUCTION CHEMICALS
TECHNICAL DATA SHEET

APPLICATION GUIDELINES

Surface Preparation

- Concrete surfaces to receive TamSeal 23E 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 23E 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 23E extending 50mm 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 1.25 mm (50 wet mils) of TamSeal 23E and when this set, apply full membrane system.
- Toulene and xylene may be used as solvent for TamSeal 23E to form a priming coat over porous surfaces followed by application of 2 coats of TamSeal 23E.
- Should a flood test is to 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 tempering during curing.
- When fully cured, a seamless film of membrane is formed and bond to the surfaces applied.

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.
- 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 representatives.

Coverage

Approximately 1.24 kg per m^2 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).

Repairs

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

PACKAGING

TamSeal 23E is supplied in 5US. Packaging size may vary subject to local regulations and requirements.

STORAGE

TamSeal 23E 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 23E 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.