

▶ 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 2mm
- Provides water vapor permeability.
- Full surface adherence without any additional anchoring.
- The waterproofed surface can be walked on.
- Even if the membrane gets damaged, it can be easily repaired locally within minutes.

▶ Typical Applications

- Waterproofing of **Rooftops**
- Waterproofing of Balconies and Terraces
- Waterproofing of Wet Areas (under-tile) in Bathrooms, Balconies, Kitchens, etc
- Waterproofing of Flowerbeds and Planter Boxes

- Waterproofing and protection of Concrete constructions 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 N/ mm ²	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	21 N/mm ² (concrete failure)	ASTM D 903
Hardness (Shore A Scale)	65 ± 5	ASTM D 2240
Application Temperature	5 ^o C to 38 ^o C	Conditions: 25 ^o 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.	

▶ 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 finished.
- 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.

HEAD OFFICE

Jl. Raya Kelapa Nias GN 011-012
Kelapa Gading, Jakarta Utara
No Telp : 021 2245 9009
No. Fax : 021 2245 7985

PT. BERSAMA BANGUN PERSADA

member of Mr. Safety Group

e-mail : info@mrsafetygroup.com

BRANCH OFFICE

Ruko Rungkut Makmur Blok D55
Jl. Raya Kali Rungkut No.27
Surabaya 60293
Telp : (031) 878 3761, 878 3762
Fax : (031) 878 3763



Method of application

- TamSeal 23E 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 23E extending 50 mm 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 (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 – 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 bond to the surfaces applied.

Precautions

- 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 TAM's local office

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 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 5 US gallons per pail.

▶ Health & Safety

TamSeal 23E contains isocyanates and xylene. See MSDS for further information.

Flammable.

Keep away from fire sources. Do not smoke. Sufficient ventilation is recommended. Gloves and goggles must protect hands and eyes. In case of contact of the material with the eyes, rinse with plenty of water and consult a physician. Tools must be cleaned before polymerization, with the solvent. Keep out of reach of children. Please study the Safety Data sheet

▶ Storage

TamSeal 23E should be stored at room temperature (max 38°C), kept dry and out of direct sunlight. Shelf life is 1 year in tightly sealed original pail.

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