

DESCRIPTION

TamSeal 2000 is a high performance HDPE preformed membrane for upwards bonding to concrete. It is designed for underground structures such as tunnels and basements. Its advanced technology sets it apart from other preformed membranes. Tamseal 2000 is a composite sheet comprising of a HDPE film and an adhesive that will react with wet mortar to provide a superior bond. Tamseal 2000 is a fully bonded waterproofing membrane that bonds directly to concrete, thus sealing the concrete and preventing any ingress of water around the structure.

TamSeal 2000 is available in sanded and non-sanded versions.

KEY BENEFITS

- > Excellent tensile strength, tear strength and elongation performance.
- > Highly reactive adhesive that ensures full and high adhesion to concrete surfaces.
- > High dimensional stability and tear resistance.
- > Excellent puncture resistance performance
- > Excellent chemical resistance to alkaline water from concrete slurry.
- > Cold-application with pressure sensitive adhesives, eco-friendly and does not need cement-mortar protective layer.

TYPICAL APPLICATIONS

- > Can be used a barrier to gas, water and moisture.
- > Basement wall and slab
- > Tunnel walls and subway walls

TECHNICAL DATA

TamSeal 2000	
Appearance	Non-sanded: Off-white Sanded: White
Membrane thickness	Non-sanded: 1.2mm (-5/+10%) Sanded: 1.6mm (-5/+10%)
TamSeal 2000 – Non-sanded	
Dimensional stability (SS 374)	
a) Longitudinal	a) < 0.5%
b) Transverse	b) < 0.5%

Tensile strength (SS 374)	a) 25 MPa b) 22.5 MPa
Elongation (SS374)	> 300%
Peel or stripping strength to concrete (ASTM D903:2004)	750 N/m
Resistance to hydrostatic pressure (DIN 16726)	> 50 m water head
Resistance to puncture (ASTM E154)	> 1000N
Change in properties after storage in aqueous solution (DIN16726)	
Thickness	< 10%
Tensile strength	< 10%
Elongation at break	< 10%
Peel or stripping strength to concrete	< 10%
Resistance to hydrostatic head	< 10%
Puncture resistance	< 10%

TamSeal 2000 – Sanded	
Tensile strength EN12311-2	≥ 1000 N/50mm
Elongation at break EN12311-2	≥ 600%
Tear strength (Nail Shrank) EN12310-2	≥ 500 N/50mm
Adhesion to concrete EN1372	≥ 2.0N/mm
Hydrostatic head resistance ASTM 5385	≥ 70 m
Puncture resistance ASTM E154	≥ 1000 N
Resistance to impact EN 12691	400 mm
Dimensional stability EN1107-2	≤ 0.5%
Cold flexibility EN495-5	-25C°
Static loading resistance EN12730	20 kg ≥ Pass
Watertightness EN1928B	Pass
Fire-resistance EN13501-1	Class E

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

Receiving substrates must be of acceptable smoothness and does not have big cracks or voids above 12 mm.

Application Method

TamSeal 2000 should not be used when climatic temperature below -2°C. In condition of when temperature is low, the tape adhesive must be heated slightly, with the means of a hot air gun during preparation to improve initial adhesion.

Vertical Substrates

Lay membrane to area required, cropping it when necessary. Carefully remove release paper material with this liner side facing the concrete pour. Press membrane downwards using suitable tools to create pressured bonding to substrate.

To improve adhesion, fixings by mechanical parts and specially designed parts can be used at the selvedge. Fixing areas must be specially protected by over-laid layers of TamSeal 2000.

Roller Ends and Cuts Edges

Overlap all roll ends and cut edges by a minimum 75 mm. Use TamSeal 2000 tape to adhere overlapped areas of two membranes.

Exposure and Protection

Concrete should be poured within 60 days of membrane installation and ensure that the release liner is removed prior to concreting. Effort should be taken to prevent damage by other trades. Any punctured or damaged areas should be repaired with a layer of TamSeal 2000 membrane with minimum 50 mm laps joint.

PACKAGING

TamSeal 2000 is supplied in:

Non-sanded version: 20 m² or 36 m² per roll.

Sanded Version: 20 m² rolls packed by plastic film or non-woven bag

STORAGE

TamSeal 2000 should be stored at room temperature, kept dry and out of direct sunlight. If these conditions are maintained and the product packaging is unopened, a six month shelf life can be expected from date of manufacturing.

Store rolls in a clean dry location, not exceed 45°C, avoid sun-baked and rain, and covered as necessary to protect from environmental damage, heat, cold or moisture, etc.

TamSeal 2000 must be stacked or stored in a manner to prevent damages from the weight of another roll of other materials.

HEALTH & SAFETY

TamSeal 2000 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.