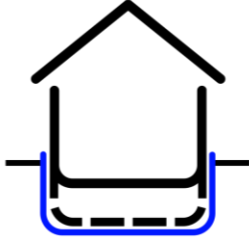


## SIM PROOF MEMBRANE (ADHESIVE SYSTEM)

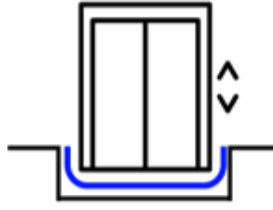
SIM Proof Membrane is an innovative waterproofing membrane developed with Styrene Butadiene Styrene (S.B.S.) based and polyester felt carrier-modified bitumen technology. It is available in thicknesses of 3, 3.5, and 4.5 mm, with a special mineral layer on top. This membrane is applied loose laid before the concrete pouring and bonds completely and permanently to the concrete with the hydration heat of the structural concrete poured on top.

### Areas of Usage

On almost every surface of all structures where water can penetrate;



FOUNDATION AND SINGLE SIDE  
RETAINING WALLS

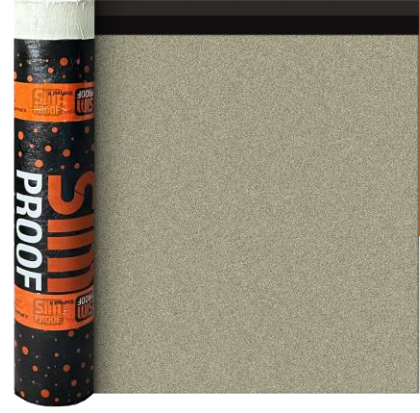


ELEVATOR PIT

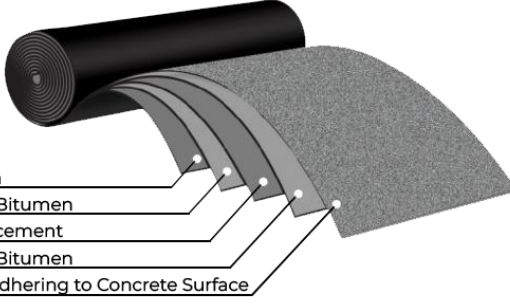
- SIM Proof Membrane system offers a professional insulation solution for deep foundations and single-sided walls.
- By providing complete adhesion to the structural concrete element, it prevents possible water infiltration.
- In ground settlements, the insulation membrane is inseparable from the reinforced concrete foundation.
- It does not require protective concrete, which saves both cost and time.
- SIM Proof Membrane system is also an ideal solution for sloped surfaces where protective concrete cannot be applied.
- It is specially designed for foundations and disposable formwork walls of structures that are below ground level.

### Advantages

- It is applied before concrete pouring.
- It provides an opportunity for positive-side insulation under the foundation and in blind formwork walls.
- It ensures full adhesion with the structural concrete poured on top, preventing possible lateral water movement.
- It is quick and easy to apply. The joints are self-adhesive.
- With the concrete pouring, the insulation is also completed.
- After adhesion to the concrete, it is resistant to water pressure up to 11.5 Bar (115m).
- The system does not require protective concrete.
- The surface can be easily cleaned.
- It is not affected by hot/cold phase transitions.
- It is highly resistant to underground conditions.
- It is resistant to saline water.
- It is not affected by ground settlement.
- It is 100% locally produced and is a globally accepted system.
- It prevents water leaks, thereby avoiding unnecessary injection costs.



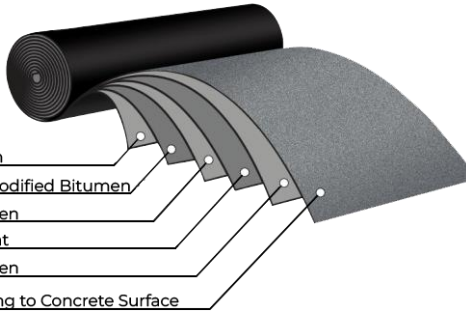
## Products Used in the System



Polyethylene Film  
Special Modified Bitumen  
Polyester Reinforcement  
Special Modified Bitumen  
Special Granule Adhering to Concrete Surface

### SIM PROOF H (Horizontal Application) 3.5 mm and 4.5 mm

It is an SBS-based waterproofing membrane used for foundation insulation, applied before concrete pouring, and provides full and permanent adhesion to the structural concrete poured on top.



Removable Special Film  
Self Adhesive Special Modified Bitumen  
Special Modified Bitumen  
Polyester Reinforcement  
Special Modified Bitumen  
Special Granule Adhering to Concrete Surface

### SIM PROOF V (Vertical Application) 3.0 mm and 3.5 mm

It is a self-adhesive SBS-based waterproofing membrane used for insulation of disposable formwork walls, applied before concrete pouring, and provides full and permanent adhesion to the structural concrete poured on top.

### SIMSelf SP2500

It is a bitumen polymer-based waterproofing membrane, SIMSelf SP2500, 2.5 mm thick, used for insulation of backfilled walls. It is applied after concrete pouring and provides full and permanent adhesion to the structural concrete it is applied to.



## Storage

- Bituminous membranes should be stored vertically in enclosed spaces.
- Pallets should be stored without stacking on top of each other and should be stored in a single layer.
- They should not be exposed to direct sunlight and should be protected from sudden temperature changes.



FEATURES	UNIT	TEST METHOD	V 3 mm	V 3.5 mm	H 3.5 mm	H 4.5 mm
Reinforcement (Carrier)			Polyester	Polyester	Polyester	Polyester
Thickness	mm(±0,2)	EN 1849-1	3	3,5	3,5	4,5
Weight	kg/m <sup>2</sup>		3,5	4,2	4,2	5,5
Roll Width	m(±0,2)	EN 1848-1	1	1	1	1
Roll Length	m(±0,2)	EN 1848-1	10	10	10	8
Visible Defects		EN 1850-1	None	None	None	None
Joint Slip Resistance	N/5cm	EN 12317-1	≥500	≥500	≥500	≥500
Heat Resistance	C°	EN 1110	≥100	≥100	≥100	≥100
Cold Flexibility	C°	EN 1109	-20	-20	-20	-20
Tensile Strength (Length/Width)	N/5cm	EN 12311-1	600/400	800/600	800/600	1000/800
Elongation at Break (Length/Width)	%	EN 12311-1	30/30	35/35	35/35	35/35
Tear Resistance (Length/Width)	N	EN 12310-1	≥200/≥200	≥200/≥200	≥200/≥200	≥200/≥200
Static Load Resistance	kg	EN 12730	≥15	≥15	≥15	≥15
Impact Resistance	mm	EN 12691	≥1250	≥1500	≥1500	≥1750
Dimensional Stability	%	EN 1107-1	Max 0,6	Max 0,6	Max 0,6	Max 0,6
Fire Reaction	Class	EN 13501-1	E	E	E	E
Top Coating			Special Thin Mineral	Special Thin Mineral	Special Thin Mineral	Special Thin Mineral
Back Coating			Removable Film	Removable Film	PE + Joint Removable Film	PE + Joint Removable Film

## Application



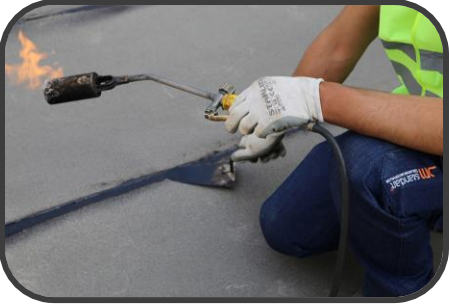
1. Sim Proof Membrane is loose (free) laid on well-compacted soil or on lean concrete.



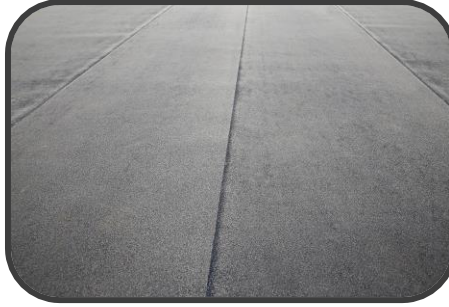
2. The self-adhesive joints are aligned.



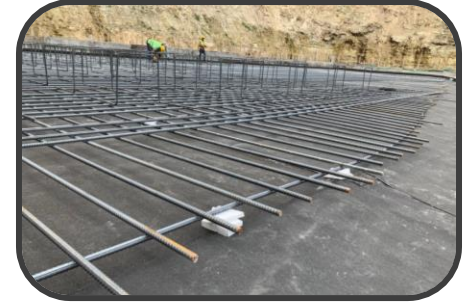
3. It is recommended to use a heat gun for the joint at temperatures below +15°C. The seam protective films are removed.



4. The seams are adhered and passed over with a pressure roller.



5. Final checks are made on the SIM Proof membrane.



6. The rebar binding process begins on the SIM Proof membrane before the foundation concrete is poured.

### Sub-foundation Application

SIM Proof Membrane is unrolled onto the continuous and complete cast-in-place concrete, self-adhesive, and the lateral joint edges are glued. The overlap is 10 cm. It is recommended to use a heat gun for joints at temperatures below +15°C.

### Disposable Formwork Wall Application

SIM Proof Membrane is adhered to the drainage board previously installed on the shoring surface, which is designed to withstand the concrete pressure. The self-adhesive lateral joint edges are glued. The overlap is 10 cm. It is recommended to use a heat gun for applications at temperatures below +15°C.



### Standards / Certifications

