STANDART INSULATION INDUSTRY AND TRADE INC. Fevzipaşa Mah. Kınalı Kavşağı Cad. No:123 ve 123/1 Silivri / İSTANBUL

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### 5 Standart INSULATION

### SIM GARDEN MEMBRANES

This is a high-performance bituminous waterproofing membrane produced from plastomeric and elastomeric modified bitumen materials. It features a cold flexibility of -10°C with Atactic Polypropylene (APP) and -20°C with Styrene Butadiene Styrene (SBS). To enhance its mechanical strength, it is reinforced with a high-strength polyester nonwoven carrier. Both sides of the membrane are coated with polyethylene film, making it resistant to plant roots and ideal for waterproofing applications in garden environments.

### Areas of Usage

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









WATER TANK

GARDEN

•In garden, garden terrace, garden balcony, and parking lot over garden applications,

•On walls, curtains, foundations, and flooring that are in contact with the ground;

•On exterior walls where water can accumulate outside or below the level that water can exert pressure;

- •In structures like water tanks, swimming pools, artificial ponds, concrete channels, etc.,
- •In wet areas such as bathrooms and toilets (provided that they are covered),
- •On different surfaces such as wood, reinforced concrete, metal, etc. (provided that they are covered)
- •In terraces, balconies, and similar areas,

It can be used as an economic solution in many waterproofing details as a sublayer.

### Advantages

- •SİM Garden Membrane is produced with a special formula and features a film layer that prevents plant roots from penetrating. This prevents many plant roots from approaching the insulation layer, while the film layer within the membrane provides a secondary protective shield against stronger plant roots.
- •SIM Garden Membranes, with polyethylene film on both sides, are high-performance products designed to provide waterproofing solutions on various surfaces such as wood, reinforced concrete, metal, etc. They are manufactured as a sublayer material for these applications.
- •It adheres perfectly to the applied surface and provides excellent adherency.
- •SIM Garden Membranes, which are preferred in continental climate zones, there is no melt or flow in hot weather conditions, and no cracking or breaking in cold weather conditions.
- •It demonstrates more than enough elasticity required for application with its transverse tensile strength and longitudinal tensile strength against structural movements. It is perfectly resistant to structural movements and differences in expansion.
- •It provides an economical and practical solution. It is very easy and quick to apply with a welding torch flame. It can be cut to the desired size and shape using special cutting blades.



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#### 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	PANDA SP 3000	PANDA SP 4000	FOK SP 3000	FOK SP 4000
Reinforcement (Carrier)			Polyester	Polyester	Polyester	Polyester
Thickness	mm(±0,2)	EN 1849-1	3	4	3	4
Roll Width	m(±0,2)	EN 1848-1	1	1	1	1
Roll Length	m(±0,2)	EN 1848-1	10	10	10	10
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	≥120	≥120	≥100	≥100
Cold Flexibility	C°	EN 1109	-10	-10	-20	-20
Tensile Strength (Length /Width)	N/5cm	EN 12311-1	800/600	800/600	800/600	800/600
Elongation at Break (Length/Width)	%	EN 12311-1	35/35	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	≥1750	≥1750	≥1750	≥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	Е	Е
Top Coating			PE	PE	PE	PE
Back Coating			PE	PE	PE	PE



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## Sin standart

### Application

- •Bituminous waterproofing membranes should be applied after being kept covered at the application site for 24 hours. (Conditioning)
- •Waterproofing applications with bituminous membranes should be carried out at temperatures between a minimum of +5°C and a maximum of +35°C and above, in dry weather conditions and on dry surfaces.
- •The surfaces to which waterproofing will be applied should be smooth and even, and they must be cleaned of dirt or residues, such as oil and diesel, that could harm the waterproofing.
- •Reinforced concrete surfaces should be primed with SIM Primer and, after drying, the waterproofing membranes should be applied according to the required bonding method.
- •All membrane layers should be laid in the same direction. The transverse joints of the first layer membranes should be staggered. The joints of the second layer membranes should be centered over the longitudinal and transverse joints of the first layer.
- •The transverse overlaps of the bituminous membrane should be 10 cm, and the longitudinal overlaps should be 15 cm, applied by heating with a welding torch flame.



Standards / Certifications

STANDART INSULATION INDUSTRY AND TRADE INC.

PRODUCT TECHNICAL DATA SHEET

