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ISOPOL

WPBIT0110.b

DESCRIPTION

ISOPOL is a plastomeric modified bitumen waterproofing membrane (APP), industrially manufactured by impregnation of the reinforcement with the waterproofing compound based on distilled bitumen modified with polyolefin polymers, which gives to the compound superior technical characteristics.
The composite reinforcement, made of nonwoven spunbond polyester in combination with fiberglass, conveys good mechanical characteristics, excellent dimensional stability and elastic performance.
Shaping of sheets, straightness, dimensional and surface uniformity are accomplished by hot calendering of the mass at hot melt fluid state.
The upper surface is coated with anti-adhesive amorphous sand. The lower surface is coated with a thermo-fusibile polyolefin film.

FIELD OF APPLICATION

ISOPOL is a excellent performance membrane. It is particularly suitable as top layer and as under layer in multi-layer waterproofing systems, with compatible membranes.
General roofing, vehicles parking roofs, foundations, on or under floors or ground slabs, wall constructions, are valid examples of the design application of this product. It is not suitable for roof gardens. It can be applied onto every substrate (concrete, masonry, steel, wood, insulation panel, membrane, etc.) and under heavy protection.
The excellent mechanical characteristics and high level thermo-dynamic stability make it suitable for any climate conditions and all the situations where a barrier against water is required.

METHOD OF INSTALLATION

The excellent thermoplastic properties of the waterproofing compound allow the application with torch-on system or hot air generator. In particular situations, it could be applied with appropriate sealants or mechanical fastenings.
The application of the membrane must be carried in good weather conditions and after the substrate has been adequately cleaned and prepared.

PACKING AND STORAGE

The product is packed as standing rolls on wooden pallets wrapped with thermoshrinking protective hoods. Rolls must be stored in the upright position, without stacking the pallets to avoid deformations which can compromise the correct application of the membrane. The product must be stored indoor, protected from heat and frost.

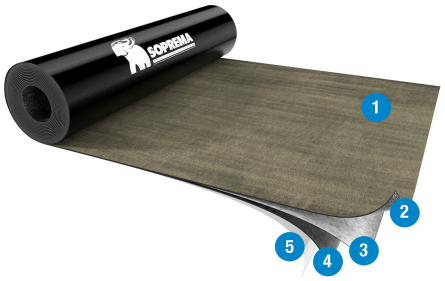
INTENDED USE OR USES

Flexible sheets for waterproofing. Reinforced bitumen sheets for roof waterproofing

Flexible sheets for waterproofing. Bitumen damp proof sheets including bitumen basement tanking sheets

Flexible sheets for waterproofing. Bitumen water vapour control layers

1. Anti-adhesive surface
2. Waterproofing mass
3. Reinforcement
4. Waterproofing mass
5. Torch-off film



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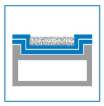
TECHNICAL DATA

	Norm	Value		Unit	Tolerance
Thickness	EN1849-1	3	4	(mm)	±0,2
Roll length	EN1848-1	10	10	(m)	-1%
Roll width	EN1848-1	1	1	(m)	-1%
Straightness	EN1848-1	PASSED		-	20 mm / 10 m
Flexibility at low temperature (pliablility)	EN1109	-10		(°C)	≤
Heat flow resistance	EN1110	130		(°C)	≥
Watertightness	EN1928-A	60		(kPa)	≥
Watertightness	EN1928-B	PASSED		(kPa)	2 KPa/24h
Water vapour transmission properties	EN1931	128.000*		(μ)	-
		M.d.	C.d.		
Tensile properties: maximum tensile strength	EN12311-1	650	500	(N/50 mm)	-20%
Tensile properties: elongation at break	EN12311-1	40	40	(%)	-15
Resistance to tearing (nail shank)	EN12310-1	200	200	(N)	-30%
Dimensional stability	EN1107-1	±0,3	±0,3	(%)	≤
Shear resistance of joints	EN12317-1	650	500	(N/50 mm)	-20%
Resistance to static puncture	EN12730-A	NPD			
Resistance to impact	EN12691-A	NPD			
External fire performance (note 1)	EN1187/EN13501-5+A1	Froof		Class	-
Reaction to fire	EN11925-2/EN13501-1+A1	E		Class	-
Root resistance	EN13948	NPD			
Visible defects	EN1850-1	PASSED		-	-
Durability: Flexibility at low temperature after artificial ageing	EN1296/EN1109	NPD			
Durability: Flow resistance at elevated temperature after artificial ageing	EN1296/EN1110	120		(°C)	-10
Durability: Watertightness after artificial ageing	EN1296/EN1928-B	PASSED		(kPa)	≥ 60
Durability: Visual defects after artificial ageing	EN1297/EN1850-1	PASSED		-	PASSED
Durability: Watertightness against chemicals	EN1296/EN1847	NPD			
Durability: Resitance to water vapour after artificial ageing	EN1296/EN1931	PASSED		(μ)	± 50 % v.i.
Durability: Chemical resistance	EN1847/EN1931	PASSED		(μ)	± 50 % v.i.

WARNINGS *Test result of 4 mm thickness membrane

NORMS EN13707; EN13969; EN13970

Top layer in multi-layer systems


Multilayer systems under heavy protection

Water vapour barrier

Damp proof courses

Foundations

Base sheet in multi-layers systems

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