

NOVATER S-A

WPBIT0260.b

DESCRIPTION	<p>NOVATER S-A is a plastomeric modified bitumen waterproofing ANTI-RADON membrane (APP), industrially manufactured by impregnation of the reinforcement with the waterproofing compound based on distilled bitumen modified with special polyolefin polymers, very low permeability to noble gas, which gives to the compound high technical characteristics.</p> <p>The composite reinforcement, made of nonwoven spunbond polyester in combination with fiberglass, conveys high mechanical characteristics, excellent dimensional stability and elastic performance and absolute impermeability against Radon.</p> <p>Shaping of sheets, straightness, dimensional and surface uniformity are accomplished by hot calendaring of the mass at hot melt fluid state.</p> <p>The upper surface is coated with anti-adhesive amorphous sand. The lower surface is coated with a thermo-fusibile polyolefin film.</p>
FIELD OF APPLICATION	<p>NOVATER S-A is a excellent performance membrane. It is particularly suitable as top layer in multi-layer waterproofing systems, with compatible membranes, as anti-RADON barrier.</p> <p>Foundations, on or under floors or ground slabs, wall constructions, water tanks, tunnels 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.</p> <p>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.</p>
METHOD OF INSTALLATION	<p>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.</p> <p>The application of the membrane must be carried in good weather conditions and after the substrate has been adequately cleaned and prepared.</p>
PACKING AND STORAGE	<p>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.</p>
INTENDED USE OR USES	<p>Flexible sheets for waterproofing. Reinforced bitumen sheets for roof waterproofing</p> <p>Flexible sheets for waterproofing. Bitumen damp proof sheets including bitumen basement tanking sheets</p> <ol style="list-style-type: none"> 1. Anti-adhesive surface 2. Waterproofing mass 3. Reinforcement 4. Waterproofing mass 5. Torch-off film



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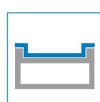
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TECHNICAL DATA

	Norm	Value	Unit	Tolerance
Thickness	EN1849-1	4	(mm)	±0,2
Roll length	EN1848-1	10	(m)	-1%
Roll width	EN1848-1	1	(m)	-1%
Straightness	EN1848-1	PASSED	-	20 mm / 10 m
Flexibility at low temperature (pliability)	EN1109	-10	(°C)	≤
Heat flow resistance	EN1110	130	(°C)	≥
Watertightness	EN1928-B	60	(kPa)	≥
Water vapour transmission properties	EN1931	20.000	(μ)	-
M.d. C.d.				
Tensile properties: maximum tensile strength	EN12311-1	700 / 600	(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	(%)	≤
Peal resistance of joints	EN12316-1	50 / 50	(N/50 mm)	-20
Shear resistance of joints	EN12317-1	700 / 600	(N/50 mm)	-20%
Resistance to static puncture	EN12730-A	15	(kg)	≥
Resistance to impact	EN12691-A	1000	(mm)	≥
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		
Radon permeability (comparison with noble gases)	Rapporto di prova CSI	< 10	(cm ³ /m ² x24 - hxatm)	
Test of Radon permeability	Rapporto di prova SP	0,7 x 10 (e-12)	(m ² /s)	-
Substances dangereuses (notes 2 and 3)	-	CONFORMS	-	

NORMS

EN13707; EN13969



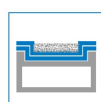
Base sheet
in multi-
layers
systems



Radon Gas
barrier



Damp proof
courses



Multilayer
systems
under heavy
protection