

NOVA-SK

WPBIT0200.a

DESCRIPTION	NOVA-SK is self-adhesive bitumen waterproofing membrane, industrially manufactured by impregnation of the reinforcement with the waterproofing compound based on distilled bitumen modified with thermoplastic elastomeric polymers of the latest generation, which gives to the compound superior technical characteristics and adhesive characteristics. The composite reinforcement, made of nonwoven spunbond polyester in combination with fiberglass, conveys high mechanical characteristics, excellent dimensional stability and elastic performance. Shaping of sheets, straightness, dimensional and surface uniformity are accomplished by hot calendaring of the mass at hot melt fluid state. The upper surface is coated with thermo-fusible polyolefin film or nonwoven polypropylene and selvage protected by anti-adhesive removable film for easy welding overlap. The lower surface is protected with a anti-adhesive removable film.
FIELD OF APPLICATION	NOVA-SK is a high-performance membrane. It is particularly suitable as an under layer in multi-layer waterproofing systems, with all membrane types; it is very appropriate where a flame is not allowed for safety reasons. General roofing, discontinuous roofs, on or under floors or ground slabs, 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, tension structures, wood, cellular insulation panel, membrane, etc.). 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 high self-adhesive properties of the waterproofing compound allow the application without a flame, simply removing the lower anti-adhesive removable film. In particular situations, it could be applied with a hot air generator. The application of the membrane must be carried out in good weather conditions, when the temperature is over 10°C, 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 thermo-shrinking 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. Flexible sheets for waterproofing. Underlays for discontinuous roofing.

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Technical Data

Attribute	Norm	Value	Unit	Tolerance
Thickness	EN1849-1:1999	2 (3.4)	(mm)	±0.2%
Roll Length	EN1848-1:1999	15 (10)	(m)	-1%
Roll Width	EN1848-1:1999	1	(m)	-1%
Straightness	EN1848-1:1999	PASSED	-	20 mm / 10 m
Flexibility at low temperature (pliability)	EN1109: 2013	-25	(°C)	≤
Heat flow resistance	EN1110: 2010	90	(°C)	≥
Watertightness	EN1928-B: 2000	200	(kPa)	≥
Watertightness	EN1928-B: 2000	PASSED	(kPa)	≥ 60 kPa/24h
Water vapour transmission properties	EN1931: 2000	65.000*	(μ)	-
Watertightness	EN1928-A W1:2000	PASSED	(kPa)	≥ 2 kPa/2h
M.d. C.d.				
Tensile properties: maximum tensile strength	EN12311-1:1999	500 / 450	(N/50 mm)	-20%
Tensile properties: elongation at break	EN12311-1:1999	40 / 40	(%)	-15
Resistance to tearing (nail shank)	EN12310-1:1999	100 / 100	(N)	-30%
Dimensional stability	EN1107-1:1999	±0.3 / ±0.3	(%)	≤
Shear resistance of joints	EN12317-1:1999	500 / 450	(N/50 mm)	-20%
Resistance to static puncture	EN12730-A:2015	NPD		
Resistance to impact	EN12691-A:2006	NPD		
External fire performance (note 1)	EN1187:2012/EN13501-5+A1:2009	F _{roof}	Class	-
Reaction to fire	EN11925-2:2010/EN13501-1:2007+A1:2009	E	Class	-
Root resistance	EN13948:2007	NPD		
Visible defects	EN1850-1:2001	PASSED	-	-
Durability: Flexibility at low temperature after artificial ageing	EN1296:2000/EN1109:2013	-25	(°C)	+15
Durability: Flow resistance at elevated temperature after artificial ageing	EN1296:2000/EN1110:2010	NPD		
Durability: Watertightness after artificial ageing	EN1296:2000/EN1928-B:2000	PASSED	(kPa)	≥60
Durability: Watertightness against chemicals	EN1296:2000/EN1847:2009	NPD		
Artificial ageing by long term exposure to the combination of UV radiation and elevated temperature and heat: Tensile strength	EN1296:2000/EN12311-1:1999	NPD		
Artificial ageing by long term exposure to the combination of UV radiation and elevated temperature and heat: Elongation	EN1296:2000/EN12311-1:1999	NPD		
Artificial ageing by long term exposure to the combination of UV radiation and elevated temperature and heat: Watertightness	EN1296:2000/EN1928-A:2000	W1	Class	-
Durability: Resistance to water vapour after artificial ageing	EN1296:2000/EN1931:2000	PASSED	(μ)	± 50% v.i.
Durability: Chemical resistance	EN1847:2009/EN1931:2000	PASSED	(μ)	± 50% v.i.

NORMS AND CERTIFICATIONS: EN13707; EN13969 - 1381 - 1381-CPR-415; EN13970 - 1211 - Tb51261/06e; EN13970 - 1211 - Ta51262/06e; EN13859-1 - 1211 - 51-14-0018

Note (1): External fire performance depends on the complete system used on the layer, no performance can be declared for the single product.



Substates or intermediate layers



Water vapour barrier



Under layers for discontinuous roofing



Damp proof courses



Foundations

INSPECTION AND MAINTENANCE

We recommend that inspections are carried out annually to confirm counterflashing, ensure drains are clear of blockages and to observe if any mechanical damage has occurred. Issues should be reported and rectified immediately. Our SOPREME Trading Bitumen membrane range is designed to last more than 10 years with the correct maintenance regime in place. Contact your local SOPREME Trading representative for any additional information.

QUALITY AND RESPONSIBLE CARE

All products distributed through SOPREME Trading (Pty) Ltd are manufactured under a management system independently certified to conform to the requirements of the quality standards ISO 9001, environmental and occupational health and safety standards.

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