

NOVA-SK MINERAL

Rev. 1 del 01/07/2013

DESCRIPTION	NOVA-SK MINERAL 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 characteristic. 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. It is a self-protected membrane, the upper surface is coated with coloured slate chips and selvedge 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 MINERAL is a high performance membrane. It is particularly suitable as top layer in multi-layer waterproofing systems, with all membrane types, or underlayer of discontinuous roofing; it is very appropriate where the flame is not allowed for safety reasons. General roofing, discontinuous roofs, 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, 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 flame, simply removing the lower anti-adhesive removable film. In particular situations, it could be applied with hot air generator. The application of the membrane must be carried 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 thermoshrink 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.
SPECIAL INDICATIONS	<p>SAFETY INFORMATION</p> <p>The product does not contain dangerous substances and can be considered as household rubbish or industrial waste (identification code EWC170302).</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> <p>Flexible sheets for waterproofing. Underlays for discontinuous roofing</p>

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TECHNICAL DATA

	Norm	Value	Unit	Tolerance
Thickness	EN1849-1:1999	3	(mm)	±0,2
Weight	EN1849-1:1999	3-3,5-4-4,5	(kg/m ²)	±10%
Roll length	EN1848-1:1999	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-A W1:2000	PASSED	(kPa)	≥ 2 kPa/2h
Water vapour transmission properties	EN1931:2000	20.000	(μ)	-
M.d. C.d.				
Tensile properties: maximum tensile strength	EN12311-1:1999	500 / 300	(N/50 mm)	-20%
Tensile properties: elongation at break	EN12311-1:1999	30 / 30	(%)	-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 / 300	(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/EN13501-5:2005+A1:2009	Froof	Class	-
Reaction to fire	EN11925-2:2010/EN13501-1:2007+A1:2009	E	Class	-
Root resistance	EN13948:2007	NPD		
Determination of adhesion of granules (Loss)	EN12039:1999	PASSED	(%)	<30
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	-

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-25°C

NORMS AND CERTIFICATIONS

EN13707; EN13969 - 1381 - 1381-CPR-415; EN13859-1 - 1211 - 51-14-0016



Top layer



Under layers
for
discontinuous
roofing



Damp proof
courses



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