

NOVA-SK MINERAL

WPBIT0202.c

DESCRIPTION NOVA-SK MINERAL is a elastomeric self adhesive bitumen waterproofing membrane (SBS), industrially manufactured by impregnation of the reinforcement with the waterproofing compound based on distilled bitumen modified with elastomeric polymers of the latest generation, which gives to the compound superior technical 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 calendering of the mass at hot melt fluid state.

The lower surface is treated with a special bitumen-elastomer compound obtained from the combination of polyolefin polymers, thermoplastic elastomers and adhesive resins which make the membrane self-adhesive and self-sealing.

It is a self-protected membrane, the upper surface is coated with coloured slate chips 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 MINERAL is a high performance membrane. It is particularly suitable as underlayer of discontinuous roofing and as undertile layer; it is very appropriate where the flame is not allowed for safety reasons.

Sloping roofs are valid examples of the design application of this product. It is not suitable for roof gardens. It can be applied onto every substrate (steel, tension structures, wood, cellular insulation panel, membrane, etc.).

The product is particularly suitable in all those cases in which, due to the characteristics of the laying surface (for example on expanded or extruded polystyrene thermal insulations, wooden roofing, etc.), or for safety reasons, it is not recommended or prohibited to use of open flames for the application of waterproofing membranes.

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 adhesive characteristics allow the membrane to be applied directly on the support without the use of a flame, removing the lower anti-adhesive protective film; for application, a minimum ambient and substrate temperature above 10-15 °C is required. In particular conditions, at lower temperatures, a moderate use of flame or hot air may be required to facilitate adhesion to the substrate and between the joints.

Due to the thermo-adhesive behavior, the increase in ambient temperature favors the adhesion of the product over time.

The membrane can be applied to any type of substrate such as: concrete, brick, sheet metal, wood, all types of insulating panels or other compatible membranes.

The use of Elastocol 600, cold adhesion promoter, is essential for applications on cementitious substrates; recommended for metal and wood.

When applied as an under-tile layer, the installation must always be integrated with mechanical fixing for any inclination of the roof

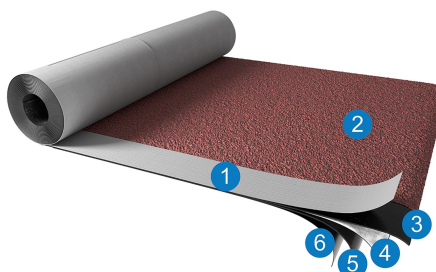
PACKING AND STORAGE The product is packed as standing rolls on wooden pallets wrapped with thermoshrinking protective hoods. Rolls must be stored in the upright position, without stacking the pallets to avoid deformations which can compromise the correct application of the membrane. The product must 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. Underlays for discontinuous roofing

1. Auto-Adhesive Selvage
2. Mineral protection
3. Waterproofing mass
4. Reinforcement
5. Auto-Adhesive waterproofing mass
6. Anti-Adhesive removable film



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TECHNICAL DATA

	Norm	Value	Unit	Tolerance
Weight	EN1849-1	3,5	(kg/m ²)	±10%
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	-25	(°C)	≤
Heat flow resistance	EN1110	100	(°C)	≥
Watertightness	EN1928-B	60	(kPa)	≥
Watertightness	EN1928-A W1	PASSED	(kPa)	2 kPa/24h
Water vapour transmission properties	EN1931	20.000	(μ)	-
M.d. C.d.				
Tensile properties: maximum tensile strength	EN12311-1	550 / 450	(N/50 mm)	-20%
Tensile properties: elongation at break	EN12311-1	40 / 40	(%)	-15
Resistance to tearing (nail shank)	EN12310-1	150 / 200	(N)	-30%
Dimensional stability	EN1107-1	±0,3 / ±0,3	(%)	≤
Shear resistance of joints	EN12317-1	550 / 450	(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		
Determination of adhesion of granules (Loss)	EN12039	PASSED	(%)	<30
Visible defects	EN1850-1	PASSED	-	-
Durability: Flexibility at low temperature after artificial ageing	EN1296/EN1109	-25	(°C)	+15
Durability: Flow resistance at elevated temperature after artificial ageing	EN1296/EN1110	NPD		
Durability: Watertightness after artificial ageing	EN1296/EN1928-B	PASSED	(kPa)	≥ 60
Durability: Watertightness against chemicals	EN1296/EN1847	NPD		
Artificial ageing by long term exposure to the combination of UV radiation and elevated temperature and heat: Tensile strength	EN1296/EN12311-1	NPD		
Artificial ageing by long term exposure to the combination of UV radiation and elevated temperature and heat: Elongation	EN1296/EN12311-1	NPD		
Artificial ageing by long term exposure to the combination of UV radiation and elevated temperature and heat: Watertightness	EN1296/EN1928-A	W1	Class	-
Substances dangereuses (notes 2 and 3)	-	CONFORMS	-	

NORMS

EN13707; EN13969; EN13859-1



Under layers
for
discontinuous
roofing