



ISRANOVA MINERAL-R SBS 4

Rev. 1 del 01/07/2013

DESCRIPTION ISRANOVA MINERAL-R SBS 4 is a elastomeric modified bitumen waterproofing membrane (SBS), industrially manufactured by impregnation of the nonwoven spunbond polyester reinforcement with the waterproofing compound based on distilled bitumen modified with polyolefin polymers, which gives to the compound superior technical characteristics. Shaping of sheets, straightness, dimensional and surface uniformity are accomplished by hot calendering 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 slate free at one side for easy welding overlap. The lower surface is coated with a thermo-fusibile polyolefin film.

FIELD OF APPLICATION ISRANOVA MINERAL-R SBS 4 is particularly suitable as principal layer in multi-layer waterproofing systems, with compatible membranes; it is very appropriate where the substrate undergoes significant and frequent movements. General roofing, vehicles parking roofs, 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, corrugated steel decks, tension structures, pre-cast concrete roofs, 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, particularly cold climates, 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.

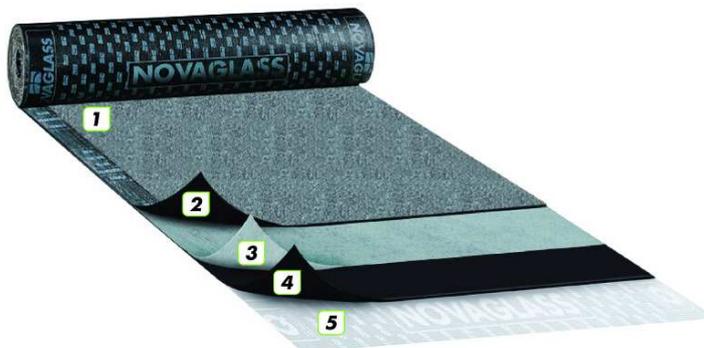
PACKING AND STORAGE The product is packed as standing rolls on wooden pallets wrapped with thermoshrinking protective hoods. Rolls must be stored in the upright position, without stacking the pallets to avoid deformations which can compromise the correct application of the membrane. The product must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

The product does not contain dangerous substances and can be considered as household rubbish or industrial waste (identification code EWC170302).

INTENDED USE OR USES

Flexible sheets for waterproofing. Reinforced bitumen sheets for roof waterproofing	Under layer EN13707:2013
Roofing sheets: Modified bitumen sheets reinforced with non-woven polyester or other fibers for use by welding	
Flexible sheets for waterproofing. Bitumen damp proof sheets including bitumen basement tanking sheets	EN13969:2004 /A1:2006

1. Mineral protection
2. Waterproofing mass
3. Reinforcement
4. Waterproofing mass
5. Torch-off film

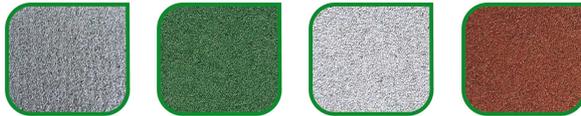


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TECHNICAL NOTES: For further information refer to general laying instruction guide of technical documentation

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TECHNICAL DATA

	Norm	Value	Unit	Tolerance
Thickness	EN1849-1:1999	4,2	(mm)	≥
Thickness of bitumen above reinforcement layer	EN13897:2004	1,0		≥
Thickness of bitumen below reinforcement layer	EN13897:2004	1,2		≥
Roll length	EN1848-1:1999	10	(m)	≥99%
Roll width	EN1848-1:1999	1	(m)	≥99%
Straightness	EN1848-1:1999	0	-	20 mm / 10 m
Flexibility at low temperature (pliability)	EN1109:2013	-20	(°C)	≤
Heat flow resistance	EN1110:2010	110	(°C)	≥
Water vapour transmission properties	EN1931:2000	20.000	(μ)	-
M.d. C.d.				
Tensile properties: maximum tensile strength	EN12311-1:1999	600 / 500	(N/50 mm)	≥
Tensile properties: elongation at break	EN12311-1:1999	35 / 35	(%)	≥
Resistance to tearing (nail shank)	EN12310-1:1999	100 / 100	(N)	≥
Dimensional stability	EN1107-1:1999	±0,5 / ±0,5	(%)	≤
Shear resistance of joints	EN12317-1:1999	500 / 500	(N/50 mm)	≥
Resistance to static puncture	EN12730-A:2015	150	(kg)	≥
Water penetration under hydraulic pressure	EN13897:2004	2		≥
Resistance of joints to leakage	EN13897:2004	10		≥
External fire performance	EN1187:2012/EN13501-5:2005+A1:2009	Froof	Class	-
Reaction to fire	EN11925-2:2010/EN13501-1:2007+A1:2009	F	Class	-
Root resistance	EN13948:2007	NPD		
Determination of adhesion of granules (Loss)	EN12039:1999	PASSED	(%)	<30
Visible defects	EN1850-1:2001	PASSED	-	-
Ageing 30 days at 80 °C	EN13948:2007	PASSED	-	-
Ageing due Q.U.V. test	EN1297:2004	PASSED	-	-

NORMS AND CERTIFICATIONS

EN13707; IS1430 p.3 - 18487; EN13969 - 1381 - 1381-CPR-415

Substates or
intermediate
layersDamp proof
courses