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NOVAGUM-P HFR MINERAL

WPBIT0442.b

DESCRIPTION

NOVAGUM-P HFR MINERAL is a elastomeric modified bitumen waterproofing membrane (SBS), industrially manufactured by impregnation of the reinforcement with the waterproofing compound based on distilled bitumen modified with elastomeric polymers and integrated with a special fire resistance additive, 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, isotropic behaviour and elastic performance. 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. Lower surface is coated with a thermo-fusibile polyolefin film.
Special faeture is the coating REFLECTA of the upper face with special white slate flakes with high solar reflectance. The high reflection property combined with a high emissivity allows the covering which the membrane is applied, on a lower heat absorption during the day and subsequently to trasmit and emit such thermal energy in the infrared field. This determines a lowering of the operating temperature of the waterproofing system and consequently of the indoor environments underneath the roof, with benefits in terms of energy saving and longer membrane lifespan.

FIELD OF APPLICATION

NOVAGUM-P HFR MINERAL is particularly suitable to be applied exposed sigle layer and as top layer in multi-layer waterproofing systems, with compatible membranes, for roof coverings exposed to external fire (product class: B-roof (t2) in accordance with CEN TS 1187 and EN 13501-5).
General roofing on every substrate (concrete, masonry, steel, wood, insulation panel, etc.) a valid examples of the design application of this product.
It is very appropriate where the substrate undergoes significant and frequent movements. It is not suitable to waterproof roof garden.
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 or as underlayers for discontinuous roofing.

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.

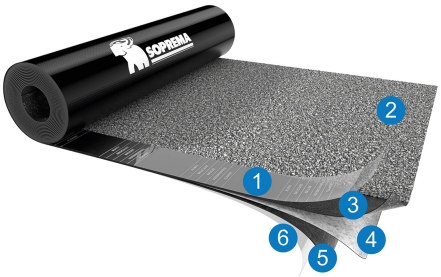
INTENDED USE OR USES

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



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Soprema S.r.l.
Via Industriale dell'Isola, 3
24040 Chignolo d'Isola (BG)
T. +39.035.095.1011

SOPREMA

Production Plant Salgareda (TV)
E. tech-office@soprema.it
W. www.soprema.it
T. +39.0422.8084

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TECHNICAL DATA

	Norm	Value	Unit	Tolerance
Thickness	EN1849-1	4 (on selvedge)	(mm)	
Roll length	EN1848-1	7,5	(m)	-1%
Roll width	EN1848-1	1	(m)	-1%
Straightness	EN1848-1	PASSED	-	20 mm / 10 m
Flexibility at low temperature (pliablility)	EN1109	-25	(°C)	≤
Heat flow resistance	EN1110	90	(°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	800 / 700	(N/50 mm)	-20%
Tensile properties: elongation at break	EN12311-1	40 / 40	(%)	-15
Resistance to tearing (nail shank)	EN12310-1	300 / 300	(N)	-30%
Dimensional stability	EN1107-1	±0,2 / ±0,2	(%)	≤
Peal resistance of joints	EN12316-1	100 / 100	(N/50 mm)	-20
Shear resistance of joints	EN12317-1	800 / 700	(N/50 mm)	-20%
Resistance to static puncture	EN12730-A	20	(kg)	≥
Resistance to impact	EN12691-A	1250	(mm)	≥
External fire performance (note 1)	EN1187/EN13501-5+A1	Broof t2**	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: Visual defects after artificial ageing	EN1297/EN1850-1	PASSED	-	PASSED
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	-	
REFLECTA		REFLECTA	-	
Infrared emittance (IE)	EN15976	0,911 *	-	±0,020
Solar Reflectance Index (SRI) at medium wind hc= 12 W/m2*K	ASTM E1980	84,8 *	(%)	
Solar Reflectance (SR)	ASTM C1549	0,699 *	-	±0,009

NOTE * values refer to the coating of the upper surface with REFLECTA white slate flakes

WARNINGS ** Classification valid only for the application of the membrane for systems as indicated by certification available on request.

NORMS EN13707; EN13969; EN13859-1


Top layer in multi-layer systems


Fire Resistance


Under layers for discontinuous roofing


Cool Roof

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