



# FLEXGUM-P MINERAL

Rev. 1 del 01/07/2013

**DESCRIPTION**

FLEXGUM-P 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 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 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 slate free at one side for easy welding overlap. Lower surface is coated with a thermo-fusibile polyolefin film.

**FIELD OF APPLICATION**

FLEXGUM-P MINERAL is a high performance membrane. It is particularly suitable as top 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. 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**

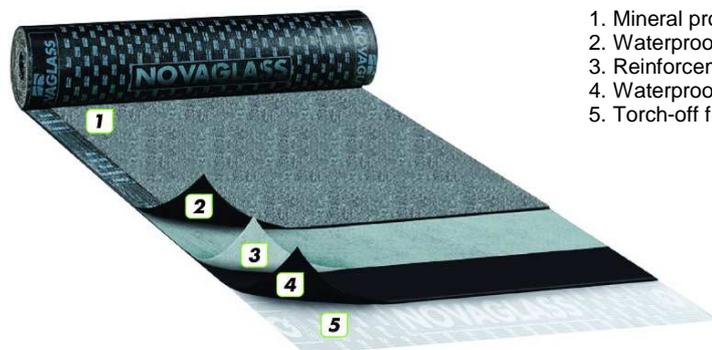
The product is packed as standing rolls on wooden pallets wrapped with thermoshinking protective hoods. Rolls must be stored in the upright position, without stacking the pallets to avoid deformations which can compromise the correct application of the membrane. The product must be stored indoor, protected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

**DISPOSAL**

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	EN13707:2004 +A2:2009
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 DATA

	NORM	VALUE	UNIT	TOLERANCE
Weight	EN1849-1:1999	3,5-4-4,5-5-5,5	kg/m <sup>2</sup>	±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	-20	°C	≤
Heat flow resistance	EN1110:2010	90	°C	≥
Watertightness	EN1928-B:2000	300	kPa	≥
Water vapour transmission properties	EN1931:2000	20.000	μ	-
LONG. / TRANS.				
Tensile properties: maximum tensile strength	EN12311-1:1999	700 / 500	N/50 mm	-20%
Tensile properties: elongation at break	EN12311-1:1999	40 / 40	%	-15
Resistance to tearing (nail shank)	EN12310-1:1999	200 / 200	N	-30%
Dimensional stability	EN1107-1:1999	±0,3 / ±0,3	%	≤
Peel resistance of joints	EN12316-1:1999	100 / 100	N/50 mm	-20
Shear resistance of joints	EN12317-1:1999	700 / 500	N/50 mm	-20%
Resistance to static puncture	EN12730-A:2015	15	kg	≥
Resistance to impact	EN12691-A:2006	700	mm	≥
External fire performance	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	EN1850-1:1999	PASSED	-	-
Durability: Flexibility at low temperature after artificial ageing	EN1296:2000/EN1109:2013	-10	°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		

**NORMS AND CERTIFICATIONS** EN13707; EN13969 - 0120 - GB 06/69407



Top layers



Damp proof courses