

FLEXGUM-P

DESCRIPTION FLEXGUM-P 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.
The upper surface is coated with anti-adhesive amorphous sand. The lower surface is coated with a thermo-fusibile polyolefin film.

FIELD OF APPLICATION FLEXGUM-P is a high performance membrane. It is particularly suitable as top layer and as under 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.

TECHNICAL DATA

TEST METHOD	NORM	UNIT	TOLERANCE	VALUE
Thickness	EN1849-1:1999	mm	±0,2	3-4-5
Weight	EN1849-1:1999	kg/m ²	±10%	3-4-5
Roll length	EN1848-1:1999	m	-1%	10
Roll width	EN1848-1:1999	m	-1%	1
Straightness	EN1848-1:1999	-	20 mm / 10 m	PASSED
Flexibility at low temperature (pliability)	EN1109:1999	°C	</=	-20
Heat flow resistance	EN1110:1999	°C	>/=	90
Watertightness	EN1928-B:2000	kPa	>/=	300
Water vapour transmission properties	EN1931:2000	μ	-	20.000
				LONG. TRANS.
Tensile properties: maximum tensile strength	EN12311-1:1999	N/50 mm	-20%	700 500
Tensile properties: elongation at break	EN12311-1:1999	%	-15	40 40
Resistance to tearing (nail shank)	EN12310-1:1999	N	-30%	200 200
Dimensional stability	EN1107-1:1999	%	</=	±0,3 ±0,3
Shear resistance of joints	EN12317-1:1999	N/50 mm	-20%	700 500
Resistance to static loading	EN12730-A:2001	kg	>/=	15
Resistance to impact	EN12691-A:2001	mm	>/=	700
Durability: watertightness after artificial ageing	EN1296:2000/EN1928-B:2000	kPa	>/= 60	PASSED
Durability: watertightness against chemicals	EN1296:2000/EN1847	-	PASSED	NPD
External fire performance	ENV1187/EN13501-5:2005	Classes	-	Proof
Reaction to fire	EN11925-2/EN13501-12:2005	Classes	-	F
Root resistance	EN13948	-	PASSED	NPD
Visible defects	EN1850-1	-	-	PASSED

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.

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

STANDARDS EN13707; EN13969 - 0120 - GB 06/69407

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