



**BETAGUM SBS** is a high performance elastomeric roofing and waterproofing membrane, reinforced with a core of non woven polyester of 200g/m<sup>2</sup> nominal weight. It combines the ability to withstand high ambient temperatures with the usual characteristics of an SBS membrane. It is suitable for a variety of applications among them; roofs, terraces, foundations, basements, pile capping, footing, tanking, car parks, bridge decks and abutments, tank lining, swimming pools, airport aprons, ramp areas and others.

### SPECIAL FEATURES

- Positive barrier to water and dampness.
- Excellent resistance to ageing and atmospheric agents.
- Highly flexible during application at sub-zero temperatures without physical strains.
- Maintains shape stability at high temperatures.
- Accommodates structural movements.
- Withstands thermal choc.
- It is provided with a lap line in slated and Aluminium membranes and as an option on PBS or Sand.
- Depending on client request and specification it may come in various grades: -10degC, 15degC, -20degC, -25degC or according to ASTM D6164 . Manufactured according to EN 13707.
- The top surface can be either: a thin Poly-ethylene film (PBS, fine sand (Sand), natural • grey or pigmented slates, Aluminium or with geotextile.
- The bottom surface is covered with a thin easy torched Poly-Ethylene film (a sand bottom is also available on request).
- Resistant to chemical attack from soil or water. It is suitable for areas subject to seaside salinity.

### COATING MIXTURE OF THE MEMBRANE

The waterproofing capability is provided by the coating mix of the **BETAGUM SBS** membrane. The reinforcement made of nominal 200gm/m<sup>2</sup> non-woven polyester mat is impregnated with this mix and then coated to factory regulated thickness. The mix is made up of bitumen, heavily modified with SBS rubber, thermoplastic resins and stabilizers giving the membrane its excellent resistance to atmospheric agents and ageing, maintaining shape stability at high temperatures and malleability at low temperatures, improving adhesion strength and making the membrane easy to apply saving on time and labor.



## TECHNICAL DATA

BETAGUM SBS products are tested at random intervals by independent laboratories to international standards and the results of these tests are available on request. In addition, each batch manufactured is subject to strict quality control procedures to ensure it meets appropriate and applicable standards and/or norms.

Tests Performed – As per ASTM	Procedure	Units	Tolerance	Value
Length		m	<-1%	10
Width		m	<-1%	1
Thickness	ASTM D5147	mm	-0.2mm	4.00
Tensile Properties : Max Tensile Force-Long	ASTM D5147	N/50mm	-20%	1000
-Trans	ASTM D5147	N/50mm	-20%	750
Tensile Properties : Elongation	ASTM D5147	%	-15	50
-Trans	ASTM D5147	%	-15	55
Resistance to Tearing	ASTM D5147	N	min	775
-Trans	ASTM D5147	N	min	650
Lap Joint Strength	ASTM D5147	N/5cm	-20%	1000
-Trans	ASTM D5147	N/5cm	-20%	750
Flexibility at Low Temperature *	ASTM D5147	C	min	-5
Dimensional Stability at 80C	ASTM D5147	%	mlv	-0.5
-Trans	ASTM D5147	%	mlv	-0.5
Water Absorption (n/a slate)	ASTM D5147	%	mlv	<0.15

  

Tests Performed – As per CE	Procedure	Units	Tolerance	Value
Visible Defects	EN 1850-1	No./m <sup>2</sup>	0	0
Length	EN 1848-1	m	<-1%	10
Width	EN 1848-1	m	<-1%	1
Straightness	EN 1848-1	mm	<20mm	Pass
Mass Per Unit Area	EN 1849-1	kg/m <sup>2</sup>	+/- 10%	4.7
Thickness	EN 1849-1	mm	-0.2mm	4
Water Tightness to Liquid Water	EN 1928-1	mlv	>60kPa	Pass
Tensile Properties : Max Tensile Force-Long	EN 12311-1	N/5cm	-20%	1000
-Trans	EN 12311-1	N/5cm	-20%	750
Tensile Properties : Elongation	EN 12311-1	%	-15	50
-Trans	EN 12311-1	%	-15	55
Resistance to Tearing (Nail Shank)	EN 12310-1	N	min	270
-Trans	EN 12310-1	N	min	280
Shear Resistance of Joint	EN 12317-1	N/5cm	-20%	1000
-Trans	EN 12317-1	N/5cm	-20%	750
Resistance to Static Loading (method A)	EN 12730	kg	min	25
Resistance to Impact	EN 12691	mm	mlv	>700
Flexibility at Low Temperature *	EN 1109	C	min	-5
Dimensional Stability	EN1107-1	%	max	-0.5
Flow Resistance less than 2mm	EN1110	C	mlv	100
Reaction to Fire	EN 13501-1		Euroclass	F



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Manufactured in: Saudi Arabia by

