



GARPROOF SBS MODIFIED

ASTM D 6164 Type II, Grade S.

DESCRIPTION

SBS modified bitumen elastomeric waterproofing membranes manufactured from a rich mixture of bitumen and selected SBS (Styrene Butadiene Styrene) polymers blended together to obtain excellent waterproofing and low temperature flexibility properties. The polymerized bitumen coated onto a dimensionally stable reinforcement core of nonwoven spun bond polyester. The membrane has excellent tensile & tear strengths and has a high fatigue and puncture resistance. It is very flexible and easy to install and is suitable for use in areas where high structural movements are expected. Surfaced with H.D.P.E film on both sides.

FUNCTIONS

GARPROOF membrane is used as double/single layer for waterproofing/damp proofing membrane for protection of various substrates in wide range of applications, such as Inverted Roofs & parapets, Terraces, balconies & patios, sunken slabs, bridges & tunnels, concrete foundations, tanking in basements, pile heads, swimming pools, airport aprons & ramp areas etc.

ADVANTAGES

- o High flexibility at low temperatures and stability at high temperature.
- o Positive barrier to water and dampness, and easy to apply
- o Excellent resistant to aging and weathering.
- o Remarkable resistance to aggressive attack of salts and chemicals
- o High tensile strength and elongation.
- o Excellent tear and puncture resistance.

INSTRUCTIONS FOR APPLICATION

The membranes are install fully bonded or loose-laid by torch welding. Clean the substrate, and prime with Garprimer SB and allow drying naturally. Torching done by skilled labour, controlled so that only the PE film melt and the asphalt coating is softened sufficient to bond the membrane. All lap joints are smooth and sealed using a heated round-nosed trowel by applying the heat of propane gas flame to the trowel. In loose-laid applications, only the lap joints, areas around penetrations (pipes etc.), up stands and a 30 cm wide strip around the perimeter of the work are fully bonded. Up stands and flashings should be installed using 1 M wide pieces cut from the length of the roll. (The overlap joints should be 10 cm at the sides and 15 cm at the end).

COVERAGE

8.85 M²/ Roll (1M X 10M) for flat surface with 10 cm side laps and 15 cm end laps.

HEALTH & SAFETY

Take all safety measures during application. Fire extinguishers should be available in the site. Labor should wear personnel protective tools such as gloves and goggles during application.

PACKING

Produced in rolls of 1 x 10 meters; special lengths are available upon request and so does surfacing of Aluminium, minerals slates, etc. The rolls are palletized and shrink-wrapped.

STORAGE & MATERIAL HANDLING

The rolls should always be stored vertically in a shaded area. Normally the pallets are not stacked one over the other. However, if a wooden board is used, two pallets may be stacked one over the other.



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AN ISO 9001:2015, ISO 14001:2015
& ISO 45001:2018 Certified Company

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TECHNICAL DATA TABLE

PROPERTIES	UNIT	SPECIFICATIONS			TEST METHOD
Roll Size	m	10 x 1			ASTM D 5147
Nominal Thickness	mm	3.0 ± 0.2	4.0 ± 0.2	5.0 ± 0.2	ASTM D 5147
Nominal Unit Weight,	kg/m ²	3.0	4.0	5.0	ASTM D 5147
Softening Point (R&B),	°C	>125			ASTM D 36
Penetration at 25 °C,	dmm	20-30			ASTM D 5
Coating Asphalt Type		SBS Modified Asphalt			----
Carrier (Non-Woven Polyester)	g/m ²	*	*	*	UEAtc M.O.A.T. 30
		180	200	250	
Tensile Strength, N/5cm @23+2°C	N	*	*	*	
Longitudinal		800	900	1050	
Transversal		650	700	850	ASTM D 5147
Ultimate elongation, %@23+2°C	%	**	**	**	
Longitudinal		50	50	50	
Transversal		50	50	50	ASTM D 5147
Tear Resistance, N:	N	***	***	***	
Longitudinal		550	650	750	
Transversal		450	550	600	ASTM D 5147
Lap Joint Strength, N/5cm	N	*	*	*	
Longitudinal		800	900	1050	
Transversal		650	700	850	UEAtc M.O.A.T. 30 & 27
Load Strain Product:	N	*	*	*	
Longitudinal		36,500	40,500	51,750	
Transversal		30,000	35,000	42,500	CGSB 37-GP 56 M
Static Indentation	-	L4	L4	L4	UEAtc 5.1.9
Dynamic Indentation	-	I3	I3	I3	UEAtc 5.1.9
Cold Flexibility at -15 to -25	°C	No Cracking			UEAtc M.O.A.T. 30
Heat Resistance at 120	°C	No Flowing			UEAtc M.O.A.T. 30
Resistance to Water Pressure	--	No Leakage			DIN 52123
Water Absorption,%Wt. @ 23°C 24 hrs.	%	< 0.15			ASTM D 5147
Moisture Vapour Transmission Rate g/m ² 24hrs	%	≤ 0.6			ASTM E 96

NOTE: *-----20 % Tolerance is expected in accordance to the standard.
 ** ----15 % Tolerance is expected in accordance to the standard.
 *** ---10 % Tolerance is expected in accordance to the stand

- Extra products and details provided upon request.
- All the rights to change the above values remains to **GAR WATERPROOFING & BITUMEN FACTORY** due to their constant improvements towards better and quality products.
- This publication automatically supersedes all previous publications relating to this product.
- The information and, the recommendations relating to the application and end-use of Gar products, are in good faith based on Gar's current knowledge and experience of the products when properly handled, stored, and applied under normal conditions in accordance with Gar's recommendations, and applicable specifications. However, no warranty or representation of law or act with respect to such information.



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