



GRIPMIX



# BITOGRIP SBS

SBS modified Bituminous Waterproofing

## OVERVIEW

**BITOGRIP SBS** is a high-quality polymer-rich SBS-modified bituminous torch-on membrane with a reinforcement core of spun-bond non-woven polyester mat, used for tanking and waterproofing of substructure areas in buildings and civil engineering projects where malleable composition is preferred. The Membrane range belongs to the elastoproof group of membranes produced using a special grade of bitumen modified with virgin SBS polymer. The polymer-rich mixture is used to saturate and coat both sides of the polyester mat.

## PROPERTIES

- High mechanical properties: good movement accommodation; resistant to tear and puncture
- High resistance to hydraulic pressure: provides an impermeable and low absorption layer.
- Wide temperature tolerance: stable in tropical climates; resistant to thermal aging and shock.
- High chemical resistance: withstands effects of salts and other corrosive agents in soil and water
- Versatile: available with a range of reinforcements, thicknesses, and surface finishes for use in a variety of applications

## Specification and Compliance

**BITOGRIP SBS** are tested in accordance with UEAtc (European Union for Technical Agreement for Construction Industry) and can be tested as per ASTM D5147 (Standard Test Method), ASTM D6164 (Standard Specification) and other relevant international standards.

## Packing & Storage :

**BITOGRIP SBS** are supplied in rolls of 1m X 10m and shrink-wrapped on pallets. Rolls must be kept upright on pallets under shade.

## Health & Safety :

There are no direct health hazards associated with **BITOGRIP SBS**. Normal precautions for hot and volatile substances should be observed during application.

## AREAS OF USE

**BITOGRIP SBS** is used where a flexible, high-performance waterproofing system is needed, such as.

- Substructure waterproofing of deep foundations subject to high and/or fluctuating water tables.
- External surfaces of underground water reservoirs, pools, and other liquid retaining structures.
- Floors of plaza decks, multilevel commercial and industrial complexes, buildings, wet rooms, etc.
- Flat and pitched roofs, balconies, terraces, etc.
- Re-roofing works to the existing structures.

## Method of Application :

Surfaces onto which the membrane is to be applied must be sound, clean and dry. Dust, loose material, and protrusions must be removed and cracks, holes, etc. made good.

**Priming:** Apply one coat of solvent-based bituminous primer to all surfaces at 5-6 m<sup>2</sup> /lit and allow to dry. Primed surfaces must be covered within the same day. If left exposed for longer periods, clean and re-prime before applying the membrane.

**Membrane Application:** Position the rolls carefully with the correct orientation before the torching operation begins. Heat the lower surface of the rolls with a propane gas torch and unroll as the bitumen begins to melt. Maintain a minimum of 100 mm side laps and 150 mm end laps between rolls, staggering the joints where possible. All seams must be heat-sealed from the top to ensure watertight laps. Protection: For relevant areas like Substructure waterproofing or Tanking etc. once laid, it is recommended to protect the membrane from long-term exposure, construction abuse, and backfill, preferably within 24 hours; on horizontal surfaces, a minimum 25 mm thick sand-cement screed may be used. **BITOGRIP SBS** is also suitable for partially bonded or loose-laid installation. Contact the technical department of your local distributor for advice.

GRIPMIX offers a comprehensive range of products and services for most concrete and finishing needs. Please contact the GRIPMIX Technical Service Department or your local GRIPMIX agent for further information, samples, demonstrations and instructor services. The information given in this leaflet is based upon laboratory research, as well as extensive field work and application. All products are sold subject to standard conditions of sale which are available on request. This information is based on GRIPMIX's present state of knowledge and is intended to provide general information on GRIPMIX's products and their methods of use. The prospective user is recommended to determine the suitability of GRIPMIX's suggestions and products before adopting them on a commercial scale.



## Type and Finish

Thickness	(mm)	3.0	4.0	5.0
Nominal weight	Kg / m <sup>2</sup>	3.5	4.5	5.5
Dimensions (length x width)	[m]	10 x 1		
Coating		SBS — modified bitumen		
Type of carrier		180/200/250 g/m <sup>2</sup> polyester mat (P)		
Top Surface		Polymeric foil(F) or Sand(Q) or Slate(S) or(QQ) for both side sand surface and A (Aluminum)		
Bottom Surface (Torching side)		Printed Polyethylene foil or Sand (Q)		

## Technical Data:

Property	Unit	Test Method	Value
Softening point	[°C]	ASTM D 36	118
Penetration, @ 25°C	dmm	ASTM D 5	No flow
Flexibility at low temperature	[°C]	DIN 52123	-5 to -10
Water absorption	%	ASTM D 570	<0.4
Type of carrier	g/m <sup>2</sup>		<u>Spun-bond Polyester Mat</u>
Tensile Strength (L/T)	[N / 5 cm]	UEAtc	180 200 250+ 750 / 650 900 / 700 1050/850
Elongation (L/T)	[%]	UEAtc	40/45 45/50 50/55
Tear resistance (L/T)	N	UEAtc	220/235 230/245 250/265
Puncture resistance Static Dynamic		UEAtc	L <sub>4</sub> Static @ 25 Kg I <sub>3</sub> Dynamic @ 9 Joules L <sub>4</sub> Static @ 25 Kg I <sub>4</sub> Dynamic @ 9 Joules