

## Description

Bituslim-100 is a high performance APP modified bitumen waterproofing membranes, reinforced with a core of spun bonded non-woven polyester carrier to obtain excellent tensile strength suitable for a variety of applications among them; roofs, terraces, foundations, basements, swimming pools and others.

## Features

- Positive barrier to water and dampness
- Excellent resistance to aging and weathering
- Flexibility at low temperature
- Stability at high temperature
- High tensile strength and tear resistance
- Accommodates structural movements
- Excellent bonding ability
- Resistance to salt and water born chemicals

## Standards

Bituslim: Complies with requirement and tolerance levels of ASTM-D-6222 M-11 and ASTM-D-5147 11A



## General Data

- Roll Length: 30-M
- Roll Width- 1-M
- Roll Thickness: 1-MM

## Finishes

Black smooth finish with thin polyethylene films both surfaces for covered applications. Fine sanded upper surface for coated systems.

## Storage

Bituslim should be stored vertically in clean covered area. Rolls should be not be stacked.

## Technical Data

PROPERTIES	RESULTS	TEST METHOD
Roll Size	1 x 30 (mtr)	ASTM-D-5147
Thickness	1.1 to 0.9 (mm)	ASTM-D-6222 M-11
Mass per unit area	1.1 to 1.2 (kg/m <sup>2</sup> )	ASTM-D-6222 M-11
Reinforcement Polyester	100 (g/m <sup>2</sup> )	ASTM-D-5147
Coating Material	APP modified bitumen	As standard
Softening Point (R&B)	>150 °C	ASTM-D-36, UEAc
Penetration at 23 ± °C	15 to 20 (dm)	ASTM-D-5, UEAc
Tensile Strength (L & T) at 23 ± 2°C	>375 and 300 (N/5cm)	ASTM-D-5147 M-11a
Elongation at break (L & T)	30 and 40 (%)	ASTM-D-5147 M-11a
Shear Resistance (L & T)	>250 and 200 (N/5cm)	ASTM-D-5147 M-11a
Tear Strength (L & T) at 21.7 °C	>180 and 120 (N)	ASTM-D-4073-06
Overlap Joint Test	250 and 200 (N/5cm)	-
Puncture Resistance	>200 (N)	ASTM-E-154
Hydrostatic Pressure at 3-bar	No leakage	ASTM-D-5147
Water Absorption	0.5 (%)	ASTM-D-6222 M-11
Heat Resistance for 2-hours	No flow at 120 °C	ASTM-D-6222 M-11
Low Temperature Flexibility	-0 to -2 °C	ASTM-D-5147
Dimension Stability (L & T)	±0.5 (+)	ASTM-D-5147

## Application tools and Equipment

- Apply suitable bituminous primer on a clean smooth and dry surface with brush / roller or spray. (Refer to Bitugulf primer data sheet for more details.)
- Allow the primer to dry prior to the application of the membrane.
- Unroll and align before torching.
- Side overlaps should be 100-mm and end overlaps by 150-mm.
- Use gas burner to heat the thermos fusible film on embossed face of membranes start to disappears during torching the membrane is read to stick.
- When the film melts, roll forward and press firmly with a roller against the substrate to bond well.
- Use the round tipped trowel to smoothen and press the overlaps.
- The membranes should be protected from getting damaged due to site activities and back filling.

