



SHUNDA SBS-001

SBS MODIFIED BITUMEN WATERPROOF MEMBRANE

SHUNDA SBS-001 is a torch-on, fully bonded waterproofing membrane consisting of butadiene, styrene and TPE as modified materials. It is designed and with innovative technology to develop a high polymer modified bitumen waterproofing membrane. **SHUNDA SBS-001** provides an excellent barrier against water intrusion between the waterproofing membrane and structure.

1 PRODUCT FEATURES

- Uniform membrane thickness, provides equal waterproofing protection across entire substrate surface area.
- Weather resistance, retains dimensional stability across high and low temperature fluctuations.
- High tensile strength that provides toughness with flexibility, good physical resistance.
- Strong bonding properties provide secure adhesion to substrate and finishing layer.
- Highly durable waterproofing material, long lasting and cost effective solution.

2 APPLICATION SCOPE

- Applicable for demanding applications with high waterproofing requirements.
- Applicable to infrastructure such as roof gardens, landscape areas, elevator shaft.
- Applicable to building structures such as basement, R.C. roof, R.C. wall, terraces.



3 PRODUCT HANDLING

- The product is safe to be transported through conventional means with standard practices. The shelf life is 12 months from date of production if stored properly. Store product in an upright position, avoid stacking. Store products indoor in dry conditions, protected from weather and direct sunlight, at temperatures between 5°C - 35°C. It is recommended to wear protective gear during use.

4 APPLICATION INSTRUCTIONS

PREPARATION

- Ensure substrate is dry, flat and even without any sharp protrusions, structurally sound with sufficient strength, repaired of all defects and damages, clean and free from laitance, dirt, loose particle, oil, and other contaminants that may affect adhesion.
- Prior to installation of **SHUNDA SBS-001**, prime the substrate layer with one coat of bitumen based primer at a rate of 0.5 kg/m² for surface treatment and improved adhesion. Primer should be dried before proceeding to the next step.

APPLICATION

- Begin with building joints, corners, and other details. Cut the membrane to a suitable shape then adhere using torch-apply method.
- Place **SHUNDA SBS-001** sheet membrane with PE film face down, unroll sheet to arrange and align according to application area. Re-roll the sheet membrane back to its original position after setting out is done.
- The sheet membrane shall be arranged and installed in a staggered laying method to avoid build-up of joints. Overlap subsequent sheets to allow for side laps at 100 mm, end laps at 150 mm, and maintain distance of staggered ends by 300 mm.
- Slowly unroll the sheet membrane while torch heating the PE film on the underside of the sheet membrane. Ensure heat is applied evenly and sufficiently, before pressing down the sheet membrane on to the substrate layer to ensure adhesion.
- Ensure all overlaps are firmly adhered by torch heating, then press down firmly with a roller. The seams are then sealed by bevelling with a heated trowel. The membrane shall be laid with a protective layer or installed with an equivalent finish.

5 SYSTEM DETAILS

2nd Layer : **SHUNDA SBS-001**

1st Layer : Bitumen Primer

Base Layer : Substrate

Product structure :

- Upper surface layer
- SBS modified bitumen layer
- Polyester reinforcement layer
- SBS modified bitumen layer
- PE film torch-apply layer



PRODUCT DETAILS

□ **SHUNDA SBS-001** dimensions : 1m x 10 m roll

□ **SHUNDA SBS-001** thickness : 3.0 mm roll / 4.0 mm roll

6 TECHNICAL DATA

- All technical data stated below are based on laboratory tests. Actual measured data may vary due to circumstances beyond control. The user of the product must test the product's suitability for the intended application and purpose.

PHYSICAL PROPERTIES		TEST METHOD	INDEX
Impact resistance (upper surface) / N		EN 13707:2004 & EN 1849-1:1999	1050
Resistance to tearing / N	MD	EN 13707:2004	248
	CD	& EN 12730:2001	258
Resistance to static, 20 kg no leakage		EN 12691:2006	pass
Shear strength / (N/50mm)			838
Max. tensile force / N	MD	EN 12317:2000	1220
	CD		1141
Elongation at break / % ≥	MD	EN 13707:2004	66
	CD	& EN 12311-1:1999	76
Water tightness (upper side)		EN 1928:2000	60 kPa, no water penetration throughout the upper filter paper
Flexibility at low temperature		EN 1109:2013	-20 °C no crack