

BOSCOBASE

THE MOST HIGH-PERFORMANCE
WATERPROOF MEMBRANE

GENERAL DESCRIPTION

BOSCOBASE is a flexible waterproofing membrane. The membrane consists of mixture of penetration bitumen, improved with Styrene-Butadiene-Styrene The bitumen (SBS Modified Bitumen)

The membrane is reinforced with a thermally bounded layer of non-woven polyester 210g/sq.m.

The upper surface is covered by special treated crushed sand system for adhesion to concrete structure, suitable use for prevents water migration and makes it unaffected by ground settlement beneath slabs. The under surface with a polyethylene foil.

Area to use :

- Waterproofing of underground works / Foundations
- Waterproofing of bridge-decks & parking decks
- Waterproofing of reservoirs (tanks) and canals
- Waterproofing of flat and inclined roofs

CHARACTERISTICS

BOSCOBASE membranes offer the following advantages:

- Upper surface adhesion to concrete structure
- Extra high tensile strength
- Excellent elasticity/Flexible/sticky
- Excellent adhesion and seam integrity
- Excellent resistance to Puncture and tear resistance
- Increased resistance to ageing
- Flexibility at low temperatures
- Wide temperature application window & operating range
- Very good behavior in a corrosive environment (acids, inorganic salts, air pollutants, ozone etc.)
- Resistance to most chemicals found in soil

ADVANTAGE

- The upper surface of Boscobase Special ensure optimal adhesion to concrete structure thus the system prevent to mechanical pressure or collapse and movement.
- Reinforced with 210 g/m² non – woven polyester excellent mechanical strength
- No need protection material before back – fill the soil mass.
- Easy to apply by Fire torch – on or loose laid or mechanical Fixed



REINFORCEMENT

BOSCOBASE possible reinforcements are:

- Non-Woven Polyester of great durability, which gives the membrane increased resistance to mechanical deformations (cracking, puncture, tearing etc.) and an extended stretching ability.

NORMS/CERTIFICATION

Bituminous membranes comply with The American Society for Testing and Materials ASTM D-6164 Type I II and EN 13707, EN 13969 and are certified with CE. Application to roofs/decks according to EN 13707 and underground structures according to EN 13969 and for Bridge Decks according to EN 14695.

GENERAL DATA

Roll Length	: 10 M.
Roll Width	: 1 M.
Thickness	: 3.7 MM.
Reinforcement	: 210 g/m ² Non-Woven Polyester

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APPLICATION PROCEDURE

Surface preparation

- Before application of the membrane it is necessary to prepare properly the substrate surface. The substrate surface must be thoroughly cleaned, remove all dust, loose matter and remaining oils in order to be smooth and dry.
- Recommended substrate relative moisture $\leq 6\%$.
- The surface must be primed with Eco friendly (VOCs free), elastomeric, waterproofing, bituminous primer with new generation technology at a consumption $\sim 0.15-0.20 \text{ Lt/m}^2$
- As soon as the surface is tack-free, the bituminous membrane can be torch applied.

Application of the bituminous membrane

- Membrane application starts from the lowest point of slopes in order to secure unobstructed water flow, when membranes are torched one in parallel to the other.
- The membrane is then rolled and positioned parallel to its adjacent one. It is then rerolled half-way without shifting.
- The bottom surface of the re-rolled part is heated with a propane torch until bitumen becomes fluid and the membrane is unrolled again to apply evenly on the substrate.
- Longitudinal overlaps must be at least 10 cm. while transversal ones must be kept to a minimum of 10 cm.

- Overlapping joints are treated with a metallic lap-joint cylinder in order to apply the optimal pressure in these demanding areas.
- In multiple layer waterproofing, application of the successive layers follows the same procedure and is done in the same direction as the previous ones. Care is taken so that overlaps do not coincide with those of the previous layer.
- In a ballasted roofing, a well calculated ballast should be placed on an adequate membrane protection layer to avoid damage.

Application notes

Application temperature should be higher than 5°C .

Waterproofing should be carried out by technicians, properly trained and certified in the bituminous membranes application.

STORAGE

Membrane rolls should be stored in their original package, in vertical position, protected from direct sunlight, rain, snow and ice. In cold weather it is recommended that the rolls should be kept at a minimum temperature $>5^\circ\text{C}$ for at least 10 hours before installation.

Avoid strong and sudden roll impact, as well as fast unrolling during installation, transportation and storage, at low temperature conditions.



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TECHNICAL CHARACTERISTICS

PROPERTIES	STANDARD	UNIT	AVERAGE VALUES
Coating Bitumen			SBS Modified Bitumen
Softening Point (R&B)	ASTM D 36	°C	> 120
Thickness	DIN 53353	mm.	3.7
Tensile strength (L/T)	ASTM D 412	N/5 cm.	855/660
Elongation at Break (L/T)	ASTM D 412	%	40/50
Tear Resistance	ASTM D 624	N/5 cm.	205/220
Puncture Resistance	UEAtc	-	Static L4 / Dynamic I3
	ASTM D 4833	N	795
Lap Joint strength (L/T)	ASTM D 4545	N/5 cm.	855/660
Resistance to Hydrostatic pressure	ASTM D 5385	m.	70
Peel Strength (Adhesion to concrete)	ASTM D 4545	N/M	852

Tolerances in the nominal values are in accordance with respective standards. Producer reserves the right to modify the properties of his products.

The information contained in this leaflet is, to the best of our knowledge, true and reliable and is supported by the present state of our knowledge. According to the care taken and the method of application, upon which we have no influence, the values are subject to divergence. Therefore for best results, prior to use, an application test should be made by the user under his own processing conditions.



HOYLAKI TECHNOLOGY PTE LTD
71, Bukit Batok Crescent #08-11, The Prestige Centre
Singapore 658071
Office Tel: +65 8201 2807
Email: admin@hoylake.com.sg
www.hoylake.com.sg