

Bitumor™ ST-SA

SELF-ADHESIVE SBS MEMBRANE WITH LAMINATED PE FILM

Technical Data Sheet



✓ DESCRIPTION

Bitumor™ ST-SA is a high-performance membrane with a pressure sensitive adhesive backing, compounded by special technique. The structure of strong overlapped double-layer film plus vertical and horizontal mesh make the performance of tensile strength, dimensional stability, heat stability and UV resistance improved.

The PSA of the membrane crosslink chemically with the cement slurry, which form a powerful waterproof "skin" on the substrate. The "skin" will never separate from the substrate which make sure of the durability of the waterproof course and non-water channeling.

✓ PRODUCT FEATURE

- ◆ Double-layer waterproofing.
- ◆ Dimensional stability, tear resistance softness, puncture resistance.
- ◆ Good balance of high elongation and strong tensile-resistance.
- ◆ Improved thermostability.

✓ ADVANTAGES

- ◆ Grows with concrete and forms a long-lasting bonding effect.
- ◆ Can heals the damage under $\phi 2\text{mm}$ and expresses excellent water tightness to nail.
- ◆ Locks the leakage position, avoids water channeling
- ◆ Absorbs and the structural pressure, avoids deformation and make the waterproof course to be long-lasting
- ◆ The cross-layered film can prevent from being damage

✓ APPLICATIONS

- ◆ Underground construction, basement top plate, bottom plate. Subway, tunnel, pond, roof construction.
- ◆ Construction of anti-corrosion and largely-deformed structure.
- ◆ Warehouse, workshop etc.

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✓ **INSTALLATION**

- ◆ The surface requirement should be firm, neat, clean and dry.
- ◆ Surface treatment: use a brush or roller to apply a layer of special basic primer(Internor BT) on the accepted base surface, only after the base surface was dry enough can apply the self-adhesive membrane.
- ◆ It is recommended that the protective layer should be laid within one week after the construction completed.

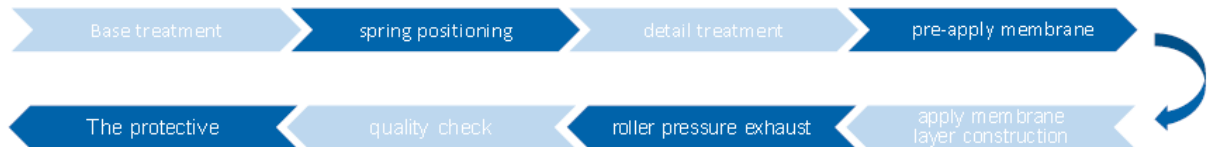
✓ **STORAGE**

- ◆ Store in dry conditions between +5 °C to 35°C.
- ◆ Rolls must be stored in their original package, in vertical position and under cool and dry conditions.
- ◆ Must be protected from direct sunlight, rain, snow and ice.

✓ **SUPPLY**

- ◆ 1.0m×20m/ Roll
- ◆ T=1.5mm/2.0mm

CONSTRUCTION PROCEDURE



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Specifications

ASTM

Property	Mean Value	Test Method
Thickness	1.5mm	NA
Tensile strength of membrane	3.0 MPa	ASTM D412 modified
Elongation of membrane (to ultimate failure of rubberized asphalt)	200%	ASTM D412 modified
Tear resistance	23 N/mm	ASTM D624 (Type C)
Resistance to hydrostatic head	60m	ASTM D5385
Cycling over crack @-25°C	No effect 100 cycles	ASTM C836
Puncture resistance of membrane	200N	ASTM E154

CE

Test item	Requirement	Result	Standard 13967:2012
Tensile strength	≥60N	Pass	En 12310-1 1999clientsrequirement
Maximum Tensile Force	≥200N	Pass	En 12311-1 1999clientsrequirement
Elongation at Maximum Tensile Force	≥150N	Pass	
Resistance to static loading	15kg. no leakage	Pass	En 12730 2001clientsrequirement Method A
Water tightness	60kpa 24h Impermeable to water	Pass	EN1928.1-2000
Flexibility at low temperature	-25°C No crack on the tested face	No crack on the tested face	En 1109-2011 1999clientsrequirement
Tensile Strength	≥200N/50mm	Pass	En 12311-1 1999clientsrequirement
Tensile Strain at Break	≥200%	Pass	En 12311-1 1999clientsrequirement