

CHEMI FLEX SBS

SBS MODIFIED BITUMINOUS MEMBRANE

DESCRIPTION:

Chemi Flex SBS waterproofing membranes consist of a polymer modified bitumen coated on to a tough non-woven polyester re-enforcement and protected on the other side by Polyethylene film.

SBS modified membrane is more resistant to soil borne chemical compared to APP modified membrane.

USES:

Chemi Flex SBS membranes are generally used as waterproofing or damp proofing membranes intended for, basements, Under Ground tanks concrete protection. It may be used for horizontal or vertical applications, and as a damp proofing & for tanking below ground structures, subways and retaining walls.

FEATURES:

- Torch applied, and easy to apply.
- Excellent adhesion to vertical and horizontal surfaces.
- Improved heat resistance to chlorides, sulphates, alkalis and acids.
- Good tear and puncture resistance.
- Water and vapor proof.
- Resistant to sulphuric Acid and sewerage.

APPLICATION INSTRUCTIONS:

Surface Preparation

A smooth, regular and dry surface is always a must for good application. The substrate should be completely free of any protrusions or cavities. The presence of oily substances, frost or other moisture should be completely avoided. Apply bituminous primer at a rate of 4-6 sq.m. Per liters as a prime coat. The prime coat should be touch dry before the application of the membrane.

APPLICATION:

The application temperature should be between - 5°C to 45°C. The installation procedures are as follows:

1. Unroll only the required length, and cut the place to the desired shape and size.
2. Place the pieces of membrane on the area to be covered, and check whether they match with the profile of the marked substrate and fix with propane gas torch by partially the melting the membrane.
3. Place a protection screed on top of the membrane soon after the application in order to prevent any damage from exposure to sunlight, backfilling tools and traffic, the vertical surface could be protected by masonry or protection boards.

PREPARATION OF SURFACE:

Ensure that all dust, dirt and foreign matter are brushed and scraped away. Also ensure the surfaces are free from slats, oil, grease and ridges, and protect all adjacent surfaces not to be covered. All cracks, voids and damages should be repaired with appropriate filler.

HANDLING:

Chemi Flex SBS membranes come in rolls of width 1m and lengths of 10m. The membranes can be unloaded by hand or any other convenient means, but ensure the absence of any sharp or protruding edges within close proximity to avoid puncturing the membrane.

STORAGE:

Chemi Flex SBS range of membranes must be stored in a shaded area on wooden pallets neatly covered by any thick fabric and tied securely in a manner that will ensure there is no excessive exposure to sunlight.

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DISPOSAL:

Chemi Flex SBS is non-in-flammable material and therefore can be disposed of in any regular disposal area. **Chemi Flex SBS** should be disposed as the modified material has tendency to

soften under heat and pressure which would make further handling very difficult.

HEALTH & SAFETY:

Chemi Flex SBS contains very tacky bitumen compound, and during application can adhere to human skin. Bitumen stain can be removed by using a cloth dipped in a light solvent. In case the affected area is sensitive, like the eye, please contact the company physician for advice.

TECHNICAL PARAMETERS:

Roll Length	10m
Roll Width	1m
Thickness	3mm and 4mm
Top Surface	Polyethylene film / Aluminum Foil/ Sand Finish
Tape Strength – Longitudinal	ASTM D 638 2.5 N/mm
Transverse	2.3 N/mm
Tensile Strength – Longitudinal	ASTM D 638 23 N/mm ²
Transverse	16 N/mm ²
Tear resistance – Longitudinal	ASTM D 1004 170 N/mm
Transverse	140 N/mm
Elongation – Membrane	ASTM D 638 220%
Compound	>1500%
Water absorption	
After 24 hrs	0.02%
After 35 days	0.16%
Adhesion – Primed substrate	ASTM D 1000 2.2 N/mm
Self	3.4 N/mm

Moisture vapor transmission – ASTM D E96
0.048 (gms/ m² / 24hrs)
Environmental resistance – ASTM D 543
Conforms
Water penetration DIN 1048 Pass

**Chemi
Tech**
Construction Solutions