

CROSS LAMINATED FILM SURFACED SELF-ADHESIVE SBS MEMBRANE

Description

Self-Adhesive membrane **Aquaproof SBS Plus** is a self-adhesive bituminous waterproofing sheet with non-protected surface. Composed of self-adhesive SBS polymer bitumen with an upper surface finish of a high-density polyethylene film (HDPE) and a lower surface finish of siliconized release film. It conforms to the requirement of BS 8102.

Uses

Aquaproof SBS Plus is use for the waterproofing and damp proofing of underground walls, basement raft, tunnels, substructures and inverted roofs under tiles.

Advantages

- Watertight - resistance to hydrostatic head of water.
- Crack Bridging properties due to high compound elongation - allows membrane to accommodate movements in the building structure.
- Excellent mechanical properties in all directions (tear strength and tensile strength, puncture and impact resistance) due to the high density polyethylene film (HDPE) finish.
- Elastic behaviour (good memory and recovery).
- Elastomeric and self-healing, minor perforation will automatically heal.
- Cold applied, easy and fast application, no torch is necessary.
- Total flexibility of the material to apply at complex geometries & perfect accommodation to the support.
- Excellent adhesion to the primed support.
- Controlled thickness during factory production ensuring constant error-free site application.
- High durability of the waterproofing due to the SBS elastomer compound of the membrane.
- High chemical, oxidation & microbiological resistance.

Technical Data

Properties	Value	Standard
Thickness	1.5 mm & 2mm ± 0.10 mm	-----
Softening Point of Compound	>100 degree C	ASTM D36
Tensile Strength (Membrane) Longitudinal Transversal	≥4 N/mm ² ≥3.60 N/mm ²	ASTM D5147 / ASTM D412
Tensile Strength (Film) Longitudinal Transversal	≥42 N/mm ² ≥48 N/mm ²	ASTM D882 / ASTM D638
Elongation at Break, (Membrane) Longitudinal Transversal	≥ 300 % ≥ 300 %	ASTM D5147 / ASTM D412
Elongation at Break (Film) Longitudinal Transversal	≥230 % ≥ 180 %	ASTM D882 / ASTM D638
Puncture Resistance	≥220 N	ASTM E154
Tear Resistance (Membrane) Longitudinal Transversal	≥210 N ≥180 N	ASTM D4073
Tear Resistance (Film) Longitudinal Transversal	≥340 N/mm ≥310 N/mm	ASTM D1004
Flexibility at Low Temperature	≤ -15 degree c	ASTM D1970
Bond Strength (to Primed Concrete)	≥2 N/mm	ASTM D1000
Bond Strength (to Self) - Lap Adhesion	≥2.10 N/mm	ASTM D1000
Water Vapor Transmission	≤0.30 g/m ² /day	ASTM E96
Hydrostatic Pressure Resistance	≥6 bar (No Leakage)	BS EN 12390 (Part 8)
Crack Bridging Ability	≥1.5 mm	ASTM C836

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Application Procedure

SURFACE PREPARATION:

The surface receiving waterproofing treatment shall be dry with moisture content <4% and thoroughly cleaned to remove dirt, dust, grease, oil, foreign substances etc., using appropriate tools & methods. It is recommended to prime the surface using a bituminous primer **Bitucoat Primer** @ 4 to 6 m²/ltr., prior to installation of membrane.

Primer should be dry before the application of the membrane. Drying time depends on ambient temperature and humidity.

APPLICATION:

The membrane is bonded completely to the primed surface by peeling-off the release film from the membrane bottom and pressing it against the surface using suitable roller. Side overlap of at least 75mm and end overlap of at least 100 mm should be maintained properly at the time of application, the overlap sealed by pressing it against the surface using suitable roller.

Limitation

Aquaproof SBS membrane should not be applied when temperature is below +10°C.

The membrane after application should not be left exposed to sun for extended period to prevent U.V. rays damage.

On vertical surface, the membrane after installation should be protected immediately after application, with HDPE dimple boards.

On horizontal surface, the membrane after installation should be protected immediately with 50mm cement-sand screed.

Safety precautions

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

Packaging

Aquaproof SBS is supplied in standard roll size of 1m x 20m.

Storage & shelf life

Store in a dry place under the covered shed and protected from rain, sun, heat, U.V rays and low temperatures. It must be stored upright.

Note

All Technical Data Sheets of FIRSTCHOICE SPECIALITY CHEMICALS are updated on regular basis; it is the user's responsibility, to obtain the most recent issue. Field services where provided, does not constitute supervisory responsibility, for additional information contact our local representative.

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