

CWC®SMART BITUSHIELD SBS

SBS Modified Self Adhesive Bituminous Membrane

Description

CWC®SMART BITUSHIELD SBS membranes are factory fabricated waterproof sheets of predetermined thickness. These sheets are produced by coating a robust rot proof core, with an impervious elastomeric modified bituminous compound. The compound is homogenous and highly flexible with rubber like characteristics. These are all important factors necessary for the membrane to function in a constantly wet environment.

Indicative Characteristics

Appearance	Black
Thickness, mm	1.5, 2, 4 (± 0.2)
Softening point, ASTM D-36, °C	>110
Tensile Strength, Longitudinal, ASTM D 5147, N/5 cm	> 600
Tensile Strength, Transversal, ASTM D 5147, N/5 cm	> 400
% Elongation at break, Longitudinal, ASTM D 5147	> 40
% Elongation at break, Transverse, ASTM D 5147	> 40
Low Temperature Flexibility, (at -20°C) ASTM D 4586	No Crack
Resistance to Water Pressure, (5bar), DIN 52123	No Water Leakage
Lap Adhesion Strength, ASTM D 1000, N/mm	> 1.5

Domains of Application

CWC®SMART BITUSHIELD SBS membranes are designed to form an impermeable protection for below grade concrete in the presence of hydrostatic pressure. **CWC®SMART BITUSHIELD SBS** membranes are used generally (but not limited to) for the following applications

- Waterproofing the underside or topside of slabs –on- grade
- Protection of pre-stressed concrete panels or reinforced concrete cast-in-situ walls.
- Waterproofing of foundation walls below as well as above
- Waterproofing of pile caps, tie beams and raft foundations
- Damp –proofing of wet areas such a below shower basins
- Waterproofing under tiles in kitchens and wet areas
- Waterproofing of sewerage concrete manholes
- As a vapour barrier membrane.

Method of Application

Surface Preparation

The surface to be waterproofed must be smooth, clean and should be free of depressions and loose aggregate. Any sharp protrusions such as nails, tying wire, etc. should be removed .Cracked concrete should be repaired and any depressions must be filled with mortar. External sharp edges must be chamfered. It is important that the surface is free of oils, grease and dust. Any moisture or condensation must be dried before commencing preparation works. Slabs must be totally dry as moisture left may be trapped inside.

Priming

The cleaned concrete surface must be coated with **CWC®SMART BITUPRIME PRIMER** (heavy bodied bitumen coating and primer) which is compatible with the membrane. The primer must be spread evenly and allowed to dry completely. Only the area to be waterproofed on a given day should be coated with primer. Impenetrable surfaces need not to be primed but should be completely cleaned.

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Application

CWC®SMART BITUSHIELD SBS is applied by peeling off the quick release film and laying the membrane on a previously primed surface. As the membrane is sticky, care should be taken to ensure that the area is covered properly and uniformly, spreading the membrane evenly and expelling any trapped air by pressing the membrane down firmly, moving from mid-point to the edges.

Joints:

The preparation of joints is an important and crucial part of the application procedure. The integrity of the joint is assured when the recommended procedures are followed. **CWC®SMART BITUSHIELD SBS** membranes are produced with a 10 cm selvedge that is covered with silicone strip. Remove the release film before making a lap joint exposes a strip of bitumen not covered by the surfacing material. The next roll of membrane is aligned with the membrane already fixed, by overlapping the fixed membrane by 10 cm. The quick release film backing of the second membrane is then peeled back a little at a time, together with the 10-cm release strip on the membrane already fixed. The membrane is then firmly pressed onto the concrete surface while covering the selvedge strip of the first membrane. A heavy seam roller should be used to press the overlapping strip. This will ensure complete adhesion and continuity between the two membranes resulting in a secure joint.

Terminating the membranes:

On vertical surfaces:

CWC®SMART BITUSHIELD SBS should be terminated in a horizontal groove made in the vertical surface. This should be followed with a suitable mastic bead.

Protection of membrane:

CWC®SMART BITUSHIELD SBS membranes should be protected against site abuse and damage by other means. The membrane should not be left exposed for more than a few hours. Protection boards or cement screed should be used to cover the membrane.

Shelf Life & Storage

12 months from the date of manufacturing when stored in dry condition at a temperature range from +5°C to 40°C and away from direct sun light. All rolls must be kept vertically stacked.

Packing

1mx15m roll

Precautions

- The membranes have no health hazard when used with our standard application recommendations.
- Store in cool, covered area.
- Rolls are to be kept in upright position
- Keep away from naked flame.
- Hot melt felt may cause serious burn injury, therefore, wear safety goggles, gloves and safety shoe during application.

Safety

- Wear hand gloves, safety shoes and safety goggles while using and handling the product.
- In case eyes or mouth are affected, wash with plenty of clean water and seek medical treatment immediately.

Before use, refer to the Material Safety Data Sheet. The MSDS is available on www.cwcchemicals.com