

BC Bitu membrane

Description:

BC Bitu membrane is a high performance elastomeric torch-on sheet waterproofing membrane. It is based on SBS modified bitumen, reinforced with a 270 g/m² polyester non-woven fabric, faced with a polyethylene film on both sides. Suitable for use in tropical and hot climatic conditions.

Uses:

BC Bitu membrane may only be used by experienced professionals.
It is used as a waterproofing membrane for protection of various substrates in a wide range of application.
Waterproofing and damp-proofing of basements against permanent water submersion and damp soils, including pile capping and foundations
Waterproofing of retaining walls
Waterproofing on flat roofs under protective layers or ballast
Waterproofing on balconies, terraces and wetrooms under screed / tiles

Characteristics / Advantages:

▪ Good resistance to ageing
▪ Good tensile strength and elongation
▪ High resistance to water vapour
▪ Good dimensional stability
▪ Flexible at low temperatures
▪ Easy to install using the torch-on method
▪ Good resistance to mechanical impact

Product Information:

Composition SBS Modified Bitumen
Packaging Roll size: 1.00 m (roll width) x 10.00 m (roll length)
Appearance / Colour Rolled sheet membrane, reinforced with polyester non-woven fabric with
Polyethylene film on both sides for ease of installation
Colour: Black

Shelf life 12 months from date of production if stored properly in original unopened



Packaging:

Storage conditions Rolls must be stored in their original package, in vertical position and under cool and dry conditions between temperatures of +5°C and +35°C.

They must be protected from direct sunlight, rain, snow and ice.

Technical Information:

Resistance to static puncture ~1200 N, ~20 mm (ASTM E154)
Tensile strength Longitudinal 1100 N/50 mm (±20 %)
Transversal 800 N/50 mm (±20 %)(EN 12311-1)
Elongation Longitudinal 45 % (±15)
Transversal 50 % (±15) (EN 12311-1)
Tear strength Longitudinal ~775 N
Transversal ~650 N(ASTM D5147 / D4037)
Joint shear resistance 500 N/50 mm (±20 %) (EN 12317-1)
Foldability at low temperature Type 1 ~-5 °C
Type 2 -15 to -20 °C(EN 1109)
Softening point ≥100 °C (ASTM D36)
Resistance to water penetration 7 bar (70 m) No leakage (ASTM D5385)
Service temperature +35 °C maximum

Application Information

Ambient air temperature +5°C min. / +50°C max.
Substrate temperature +5°C min. / +65°C max.

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Substrate Quality:

The supporting structure must be of sufficient structural strength to apply all new and existing layers of the waterproofing build-up.

When used as a roofing membrane, the complete roof system must be designed and secured against wind uplift loadings

The substrate must be uniform, firm, smooth and free of any sharp protrusion or burrs, clean, dry, free of any sharp protrusion or burrs, clean, dry, free of grease, oil, dust and loosely adhering particles

Substrate Preparation

Use the appropriate preparation equipment to achieve the required substrate quality.

Application Method / Tools:

Installation procedure

Priming:

Apply the appropriate primer Like BC Black memb PU

Alignment

Unroll, align and re-roll correctly before torching.

Overlaps

Side: 100 mm. End: 150 mm.

Torching:

Use a gas burner to heat the substrate and the backing film on the underside of membrane. When the backing film starts to melt, the membrane is ready to stick Roll the membrane forward and press firmly against the substrate to bond. Ensure a bead of melted bitumen is visible along the full length of the overlap sides and ends when laying

Detailing:

All details such as internal and external corners, upstands, vent pipes, drains, support metalwork etc. must be cut and sealed effectively.

Detailing must follow the recommended guidelines and good practice for torch-applied membranes.

