

Bitulen® 180

APP-Modified Bituminous Waterproofing Membrane



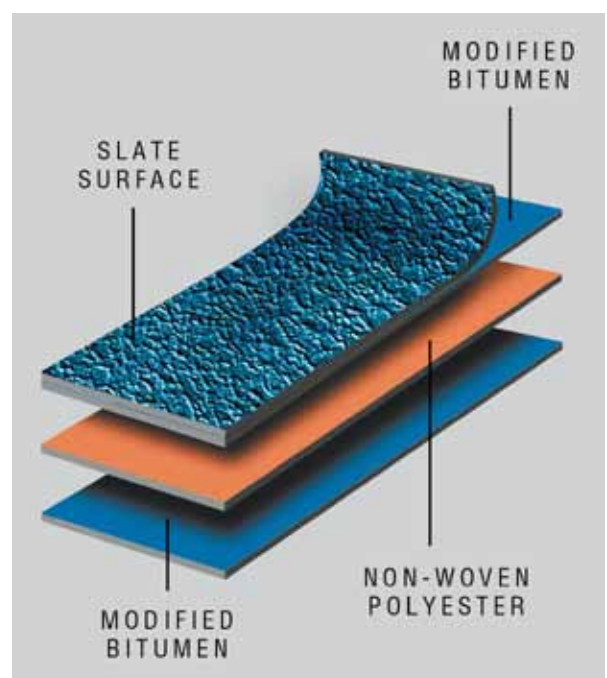
About Bitulen® 180

Bitulen® 180 is a torch-on waterproofing membrane consisting of modified bitumen with plastomeric, atactic-polypropylene (APP) polymers and selected stabilized fillers. The membrane has good resistance to thermal ageing and dimensional heat stability and may be applied in any climate and is particularly suited for temperate and warm climatic area.

Bitulen® 180 is highly resistant to the ageing effects of UV radiation and is not easily damaged from foot traffic during application which is essential for 'exposed' roofing where a high quality finish is required.

Bitulen® 180 is reinforced with a rot-proof non-woven polyester stabilized with glass fibres. This ensures excellent dimensional stability and high level performance to the membrane.

Bitulen® 180 is available with a coloured slate chip(mineral) top surface for exposed applications. For concealed or multi-layer systems, **Bitulen® 180** is available in talc finish.



Installation Procedures

Bitulen® 180 installation should follow recommended practices for torch-on membranes. Care must be taken when using **Bitulen® 180** in close proximity to other combustible materials, decorative coatings and other heat sensitive materials.

Install **Bitulen® 180** by melting the heat dispersible film backing and coating with a high temperature flame to create a molten flow in front of the roll. The flame of the torch should be applied at the low point where the roll meets the substrate or underlay. As the film and bitumen melt, roll the membrane forward allowing for side laps of 100 mm and end laps of 150 mm. A bead of bitumen must exude from all lap joints to ensure a uniform seal.

Technical Specification

	Test Method	Typical Value
Roll Size	-	10m(L) x 1m (W)
Tensile strength (N/mm ²)	SS 374	>4.5 (long.) >4.0 (trans.)
Elongation (%)	SS 374	>60 (long.) >55 (trans.)
Tensile shear at joints (N)	SS 374	850
Resistance to leakage at joints	SS 374	No leakage
Hydrostatic test	SS 374	No rupture
Water vapour transmission (g/m ² /hr)	SS 374	0.11
Water absorption (%)	SS 374	0.44
Dimension stability (%)	SS 374	-0.3 (long.) 0 (trans.)
Tear strength (N)	ASTM D624	38 (long.) 31 (trans.)
Puncture strength (N)	ASTM E154	1055 (at 25°C) 1004 (at 60°C)

Application

- Metal deck
- Vault and shed covering
- Renovation and refurbishment
- Foundation and underground structures
- Inverted roofs

Advantages

- Torch-on application
- Reinforced with tough polyester stabilized glass fibres
- UV resistance
- Static puncture resistance
- Conforms to Singapore Standard SS374:1994

Colours

Green



Standard Colour

Dark Grey

Brown



White



Red



Indent Colours

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