

EPO BITU MEMBRANE 180 SA

Reinforced APP Modified 4mm Thick Bituminous Waterproofing Membrane



DESCRIPTION

EPO BITU MEMBRANE 180 SA is torch applied bituminous waterproofing membrane. It is based on APP modified bitumen, reinforced with a core of heavy duty non-woven spun bonded polyester fabric by 180g/m², rot-proof and flexible. The polyester gives the membrane its excellent mechanical properties, allows for high tensile, elongation and tear strength. The chemical resistance of **EPO BITU MEMBRANE 180 SA** makes it suitable for tanking applications where aggressive ground water conditions dominate.

USES

EPO BITU MEMBRANE 180 SA is used as a waterproofing membrane for protection of various substrates in a wide range of application:

- Waterproofing and damp-proofing of basements
- Waterproofing of concrete roof and floor slabs
- Waterproofing of retaining walls
- Waterproofing of tunnels & bridges
- Waterproofing of Car park deck slabs
- Waterproofing on balconies, terraces and bathrooms under screed / tiles

ADVANTAGES

- Positive barrier to water ingress and dampness
- Excellent resistance to aging and weathering
- Flexibility at low temperatures
- Stability at high temperatures
- High tensile strength and tear resistance
- Accommodates structural movements
- Fast, easy and clean application

PRODUCT DATA

Country of Origin	KSA
Colour	Black
Appearance	Rolled sheet membrane reinforced with polyester non-woven fabric
Roll Size	1m (roll width) x 10m (roll length)
Thickness	4mm
Mass per unit area	4800 g/m ²

TECHNICAL SPECIFICATION

Test Name	Standard	Average Result
Tensile Strength at 23 ±2°C Longitudinal Transversal	ASTM D 5147 UEAtc MOAT. 30	650 N/5cm 500 N/5cm
Lap Joint Strength Longitudinal Transversal	UEAtc MOAT. 30 & 27	650 N/5cm 500 N/5cm
Peak load at 23 ±2 °C (L/T) before and after heat conditioning	ASTM D-5147	≥ 10 kN/m
Elongation at 23 ±2 °C (L/T) before and after heat conditioning, at peak load	ASTM D-5147	≥ 45%
Tear strength at 23 ±2 °C	ASTM D-5147	≥ 400 N
Low temperature flexibility, before and after heat conditioning	ASTM D-5147	0 to -2 °C
High temperature stability	ASTM D-5147	≥ 110°C
Water absorption	ASTM D-5147	≤ 1.0%



APPLICATION PROCEDURE

SURFACE PREPARAION

All surfaces should be smooth, clean, dry and free from nails, grease, dust, debris, oil, protruding elements etc.

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PRIMING

EPO BITU COAT PRIME or **EPO BITU COAT** is recommended for priming. Apply one coat of primer prior to the application of **EPO BITU MEMBRANE 180 SA**. Allow the primer coat dry until it is tack free. All surfaces must be re-primed if left for more than 24 hours.

APPLICATION

EPO BITU MEMBRANE 180 SA is unrolled and placed in the correct position. Each membrane must be laid parallel to each other and must be staggered by at least 1 m to avoid coinciding joints. Each roll must side overlap at least 10cm, while slowly unrolling the membrane the surface is lightly heated by means of a propane gas torch causing surface melting and subsequent adhesion to the surface. End joints should be made with a minimum of 15cm overlap.

STANDARDS

ASTMD 6222
UEAtc MOAT 30
DIN 52133

STORAGE

Keep the products packed in a dry place. Keep away from direct sunlight. Do not place the pallets on top of each other. Rolls must always be kept in a vertical position.

HEALTH AND SAFETY

All safety measures should be observed during application. Fire extinguishers should be available at site. Care should be taken with gas, and torch should not be rested on finished surface or on any materials that can be scratched by flame or hot torch. Gloves and goggles should be worn by all workers during application.

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