

SpECtite™ TM 180

APP MODIFIED TORCH-ON MEMBRANE

DESCRIPTION

SpECtite™ TM 180 is a high quality polymer rich APP modified bituminous torch-on membrane with a reinforcement core of 180 gr/m² non-woven polyester mat, used for tanking and waterproofing to substructures areas in buildings and civil engineering projects.

TYPICAL USES

SpECtite™ TM 180 membranes are where a tough, high quality waterproofing system is needed, such as:

- Substructure waterproofing in buildings and civil engineering works
- External surfaces of underground water reservoirs, pools, and other liquid retaining structures.
- Floors of bathrooms, kitchen, laundry room, etc.
- Flat and pitched roofs, balconies, terraces, etc.
- Re-roofing works in existing structures

ADVANTAGES

- High mechanical properties: good movement accommodation and resistance to tear and puncture.
- High resistance to hydraulic pressure: provides an impermeable and low absorption vapor-and-water proof layer.
- High temperature tolerance: stable in tropical climates and resistant to thermal aging, creep and shock
- High chemical resistance: withstands effects of salts and other corrosive agents in soil and air.
- Versatile: available in range of thickness and surface finishes for use in foundations, floors and roofs in both covered and exposed conditons.

STANDARD COMPLIANCE

SpECtite™ TM 180 membranes conforms to the UAEtc MOAT 27 and MOAT 30 standards, and are tested to ASTM, UAEtc and other relevant international standards.

TECHNICAL DATA

Reinforcement Type	Non-woven Polyester
Reinforcement Weight-UAEtc	180 gr/m ²
Softening Point - ASTM D36	155 (°C)
Penetration @ 25°C ASTM D5	20 dmm
Flow Resistance @ 100°C (UAEtc)	No FLOW
Cold Flexibility - UAEtc	0°C
Tensile Strength (UAEtc)	
Longitudinal	800 N / 5cm
Transversal	500 N / 5cm
Elongation (ASTM D514, UAEtc)	
Longitudinal	40%
Transversal	45%
Tear Strength (ASTM D147)	
Longitudinal	450 N
Transversal	300 N
Lap Joint Strength (UAEtc)	
Longitudinal	800 N / 5cm
Transversal	500 N / 5cm
Puncture Resistance (ASTM E154)	800 N/5cm
Water Absorption (ASTM D570)	0.2%
Environmental Resistance (ASTM D543)	Conforms
Membrane Weight	4.7 Kg/m ²

SURFACE PREPARATION

Surfaces onto which the membrane is to be applied must be sound, clean and dry. Dust, loose material and protrusions must be removed and cracks, holes, etc. made good.

Priming: Apply one coat of **SpECTite Primer** solvent based bituminous primer to all surfaces at 5-6m²/lit and allow to dry. Primed surfaces must be covered within the same day. If left exposed for longer periods clean and re-prime before applying the membrane.

Membrane Application: Position the rolls carefully with the correct orientation before the torching operation begins. Heat the lower surface of the rolls with a propane gas torch and unroll as the bitumen begins to melt. Maintain minimum 100mm side laps and 150mm end laps between rolls, staggering the joints where possible. All seams must be heat sealed from the top to ensure watertight laps.

Protection: Once laid, the membranes must be protected from long term exposure, construction abuse and backfill within 24 hours. On vertical areas use of **SpECTite Protection Board** is recommended, while on horizontal surfaces a minimum of 25mm thick sand-cement screed may be used.

SpECTite TM 180 membranes are suitable for partially bonded and loose laid installation. For further information refer to our technical department.

THICKNESS

- Standard thickness is 4mm, other thickness available on request.

FINISHES

- Surface finish: Sand for normal use, slated (gray) for exposed conditions and polyethylene film (PBS) for

special applications. To order specify thickness and finish.

- Lower surface is covered with a polyethylene film, which is torched off during application.

PACKAGING & YIELD

SpECTite TM 180 membranes are supplied in rolls of 1 x 10m, individually packed and shrink wrapped.

SpECTite TM 180 is a 4 mm thick sheet membrane with a standard surface finish of polyethylene film. The lower surface is covered with a siliconized polyethylene foil, which is removed immediately prior to the application.

STORAGE & SHELF LIFE

- Keep rolls upright on pallets under shade.

QUALITY ASSURANCE

SpEC is an ISO 9001 Quality Assured company, and all **SpECTite TM 180** membranes carry a 10-year material warranty.

HEALTH & SAFETY

There are no direct health hazards associated with **SpECTite TM 180** membranes. Normal precautions for bituminous and volatile substances should be observed during application.

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Whilst the information and/or specifications given are, to the best of our knowledge, true and accurate, no warranty is given or implied in any connection with any recommendations or suggestions made by us, our representatives, agents or distributors as the conditions of use and labour involved are beyond our control.

SPECIALITY ENGINEERING CHEMICALS

PO Box 61347, Dubai, United Arab Emirates. Telephone: +971 4 883 6662, Fax: +971 4 883 7696

E-mail: info@spec.ae

www.spec.ws

Distributed by: **EMIRATES SPECIALITIES CO., L.L.C.**

P.O. Box 3880, Dubai, United Arab Emirates.

Al-Quoz Distribution Centre.

Tel: +971 4 3470767, Fax: +971 4 3470765

E-mail: dubai@esco.ae

P.O. Box 46564, Abu Dhabi, United Arab Emirates.

Tel: +971 2 6784800, Fax: +971 2 6778366

Email: abudhabi@esco.ae

P.O. Box 6156, Sharjah, United Arab Emirates

Tel: +971 6 5420220, Fax: +971 6 5421211

E-mail: sharjah@esco.ae

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