

# SPECtite TMFLEX 200

SUPERIOR GRADE SBS MODIFIED MEMBRANE

## DESCRIPTION

**SpECtite TMFlex 200** is a high quality polymer-rich SBS modified bituminous torch-on membrane with a reinforcement core of 200 gr/m<sup>2</sup> non-woven polyester mat, providing high performance waterproofing to substructure and superstructure areas in buildings and civil engineering projects.

## TYPICAL USES

**SpECtite TMFlex 200** membranes are used where a flexible high performance system is required, such as:

- Substructure waterproofing with deep foundation subject to high and/or fluctuating water tables.
- External surfaces of underground water reservoirs, pools, and other liquid retaining structures.
- Floors of plaza decks, multilevel commercial and industrial complexes, buildings, etc.
- Flat and pitched roofs, balconies, terraces, etc.
- Re-roofing works in existing structures

## ADVANTAGES

- Excellent 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.
- Wide temperature tolerance: stable in tropical climates while maintaining flexibility at lower temperatures.
- High chemical resistance: withstands effects of salts and other corrosive agents in soil, water and air.
- Versatile: available in range of thicknesses and surface finishes for use in foundations, floors and roofs in both covered and exposed conditons.

## STANDARD COMPLIANCE

**SpECtite TMFlex 200** membranes conforms to the UAEtc MOAT 27 and MOAT 30 standards, and are tested to ASTM, UAEtc and other relevant international standards.

## TECHNICAL DATA

<b>Reinforcement Type</b>	Non-woven Polyester
<b>Reinforcement Weight-UAEtc</b>	200 gr/m <sup>2</sup>
<b>Softening Point - ASTMD36</b>	110 (°C)
<b>Penetration @ 25°C ASTM D5</b>	30 dmm
<b>Flow Resistance @ 100°C (UAEtc)</b>	No FLOW
<b>Cold Flexibility - UAEtc</b>	-10 °C
<b>Tensile Strength (UAEtc)</b>	
Longitudinal	900 N / 5cm
Transversal	650 N / 5cm
<b>Elongation (UAEtc)</b>	
Longitudinal	42%
Transversal	47%
<b>Tear Strength (UAEtc)</b>	
Longitudinal	220 N
Transversal	240 N
<b>Lap Joint Strength (UAEtc)</b>	
Longitudinal	900 N / 5cm
Transversal	650 N / 5cm
<b>Dimensional Stability (ASTM D5147, UAEtc)</b>	
Longitudinal	±0.5%
Transversal	±0.5%
<b>Puncture Resistance (UAEtc)</b>	
Static	L <sub>4</sub>
Dynamic	L <sub>4</sub>
<b>Water Absorption (ASTM D570)</b>	0.15%
<b>Environmental Resistance (ASTM D543)</b>	Conforms
<b>Membrane Weight</b>	4.7 Kg/m <sup>2</sup>

## 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 **SpEC Black Bitumen Paint** solvent based bituminous paint/primer to all surfaces at 5-6m<sup>2</sup>/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 TMFlex 200** membranes are suitable for partially bonded and loose laid installation. For further information refer to our technical department.

## THICKNESS

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

## FINISHES

- Surface finish: Polyethylene film (PBS) for normal use, slated (gray) for exposed conditions to order specify thickness and finish
- Lower surface is covered with a polyethylene film, which is torched off during application.

## PACKAGING & YIELD

**SpECTite TMFlex 200** membranes are supplied in rolls of 1 x 10m, individually packed and shrink wrapped.

**SpECTite TMFlex 200** is a 1.5mm 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 TMFlex 200** membranes carry a 10-year material warranty.

## HEALTH & SAFETY

There are no direct health hazards associated with **SpECTite TMFlex 200** 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.

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