

## **AWAZEL DESERT SHIELD 40180**

*4 mm thick, APP modified bituminous membrane, reinforced with 180 g/m<sup>2</sup> non woven polyester mat, complies with the requirements of ASTM D 6222 Type II, Grade S & G, UEAtc MOAT 30, CGSB 37-GP-56M & DIN 52133*

### **Description**

High performance polymer modified bituminous membranes, reinforced with non woven polyester mat. The polyester combines high tensile strength and an elongation above 40%.. The special polymer modifier used has great resistance to Ultra-Violet radiation.

### **Features**

- Durable and easy to apply.
- High flexibility at low temperatures and stability at high temperatures.
- Remarkable resistance to aggressive attack of salts and chemicals.
- High tensile strength and elongation.
- Excellent puncture resistance

### **Functions**

Used as double layers for tanking in basements or single and / or double for waterproofing of roofs. A single layer followed by layer of mineral surfaced DS can be used for exposed roofs.

### **Instructions For Application**

These membranes can be installed fully bonded or loose-laid by torch welding. The substrate should be cleaned and primed with AWAZEL PRIMER D41 and allowed to dry. Torching should be done by skilled labor and should be controlled so that only the PE film is melted and the asphalt coating is sufficiently softened to bond the membrane. All lap joints should be smoothed and sealed using a heated roundnosed trowel. The heat of the gas flame should be applied to the trowel. In loose-laid applications, only the lap joints, areas around penetrations (pipes etc.), upstands and a 30 cm wide strip around the perimeter of the work should be fully bonded. Upstands and flashings should be installed using 1 m wide pieces cut from the length of the roll. (The overlap joints should be 5 to 10 cm at the sides and 15 cm at the end.)

### **Coverage**

1.12 m per layer for flat surfaces

### **Health & Safety**

All safety measures should be observed during application. Fire extinguishers should be available at the site. Protective gear, such as gloves and goggles, should be worn by personnel during application.

### **Precautions**

No special precautions are needed.

### **Packing**

Produced in rolls of 1 x 10 and 1 x 8 meters; special lengths are available upon request. Rolls are palletized and shrink-wrapped.

### **Surfacing**

Standards surfacing is PE Film on top and bottom. Different combinations of top surfacings are available upon request such as sand, colored minerals, etc.

### **Storage & Material Handling**

Rolls should always be stored vertically in a shaded area. Normally, pallets should not be stacked one over the other. However, if a wooden board is used in between, 2 pallets may be stacked, one over the other.

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## **TECHNICAL DATA**

<b>Properties</b>	<b>Typical Results</b>	<b>Test Method</b>
Roll Size, m	10 x 1	UEAtc, M.O.A.T. 30
Nominal Thickness, mm	4.0	ASTM D 5147 UEAtc, M.O.A.T. 30
Nominal Unit Weight, kg/m <sup>2</sup> (Plain)	4.0	UEAtc, M.O.A.T. 30
Nominal Unit Weight, kg/m <sup>2</sup> (Mineral surfaced)	4.5	UEAtc, M.O.A.T. 30
Carrier (Polyester) Weight, g/m <sup>2</sup>	180	UEAtc, M.O.A.T. 30
Coating Asphalt Type Softening Point (R&B), °C Penetration at 25 °C, 0.1 mm	App Modified Asphalt > 150 15 - 30	ASTM D 36 ASTM D 5
Tensile Strength, N/5cm Longitudinal Transversal	* 900 700	UEAtc M.O.A.T. 30
Elongation at Break, % Longitudinal Transversal	* 45 50	UEAtc M.O.A.T. 30
Lap Joint Strength, N/5cm Longitudinal Transversal	>900 >700	UEAtc M.O.A.T. 30
Tear Resistance, N Longitudinal Transversal	450 350	ASTM D 5147 ASTM D 4073
Load Strain Product Longitudinal Transversal	40,500 35,000	CGSB-37 GP 56 M ASTM D 5147
Cold Flexibility at - 0 °C --5 °C	No Cracking	ASTM D 5147
Heat Resistance at 135 °C	No Flowing	ASTM D 5147 UEAtc, M.O.A.T. 30
Resistance to Waterpressure	No Leakage	DIN 52123
Water Absorption, (BSP)	< 3.2 %	ASTM D 5147
Puncture Resistance :   Static Dynamic	L <sub>4</sub> I <sub>3</sub> L <sub>4</sub> I <sub>4</sub>	UEAtc, M.O.A.T. 27
Resistance to Aging after 2000 hours (Accelerated Weathering Tester)	No deterioration	ASTM D 4799

Note : The above shown technical data are typical results obtained to the best of our knowledge, from our quality control records, extra details can be provided upon request.

\* In accordance to the standard, a variation of 20% is expected.

\*\* In accordance to the standard, a variation of 15% is expected

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