



# AMAN

## APP Modified Bitumen Membrane

### Description:

AMAN waterproofing membrane 3, 4 or 5 mm thick, is highly performing membrane.

AMAN membranes are manufactured from bitumen, modified with atactic poly-propylene (APP).

The compound is a mixture of distilled bitumen, thermoplastic polymers (TP) and elastoplastic copolymer (EPC) which gives the membrane excellent durability and flexibility at low temperatures, and ability to withstand high temperatures. The reinforcement is of 180 g/sqm nonwoven polyester fabric to give high elongation and to provide the membrane with the required resistance to heat aging, puncture, and rotting.

AMAN is manufactured with polyethylene film on the lower face to prevent sticking in the roll and which melts quickly when subject to heat during application, which gives a visual sign of the correct melting temperature of membrane. The upper face is covered with fine sand, granules or colored slates when membrane is used as exposed top layer.

### Advantages:

- ❑ Single-ply waterproofing layer.
- ❑ Fast, easy and clean application.
- ❑ Can be applied to repair existing asphalt roofing systems.
- ❑ Highly resistant to weathering.
- ❑ Resistance to salt solutions, dilute acids, alkalies, sulfates and chlorides.
- ❑ Resistant to U.V.

### Field of Application:

Due to its excellent resistance and elongation, AMAN is used for a wide range of waterproofing applications such as:

- ❑ Roofs (reinforced concrete, prefabricated concrete, metal and timber decks).
- ❑ Roof gardens, terraces, kitchens, bathrooms, etc.
- ❑ Underground foundations, basements and retaining walls.
- ❑ Reservoirs, basins and canals.

### Application:

- ❑ Lay down the rolls so that the lower face with poly-ethylene film is bonded to the substrate.
- ❑ To fix the sheet to the substrate, use a propane gas burner to melt off the polyethylene film and a thin layer of bitumen while unrolling and laying the membrane.
- ❑ Seams at overlaps should be properly secured and smoothed on with a hot round-tipped trowel.
- ❑ Side laps 100 mm and end laps 150 mm.
- ❑ The membrane may be loosely laid, partial or fully bonded, depending on the structure and the specifications.



## Technical Specifications

Property	Result	Test Method
Dimension, m/roll	1x10	
Thickness, mm	3, 4 or 5	ASTM D5147
Weight per roll, Kg	40, 50 or 62	UEAtc MOAT 30
Reinforcement	Nonwoven Polyester 180 g/m <sup>2</sup> .	BS 747
Penetration of coating mixture at 25°C, dmm	20 ± 10	ASTM D5
Softening point of coating mixture, °C	150 ± 10	ASTM D36
Heat Resistance	No flowing after 2 hours at 120 °C.	UEAtc MOAT 30
Cold Pliability	No cracking at -8 °C	UEAtc MOAT 27
Tensile Strength, N/5cm.		ASTM D5147 & D146
Long.	650	
Transv.	450	
Ultimate Elongation, %		ASTM D146
Long.	35	
Transv.	40	
Tear Strength, N.		ASTM D4073
Long.	220	
Transv.	180	
Water Absorption, %	<1	ASTM D5147
Static Indentation Resist.	Not perforated at 25 kg. (Class L4).	BS 747
Water Pressure Resistance	No leakage at 1000 mm water head/24 hrs.	UEAtc MOAT 27
Water Vapor Transmission	0.2 g/m <sup>2</sup> per day	ASTM E96
Resistance to U.V.	No Deterioration.	ASTM G53
Resistance to Chemicals	Resistant to alcohol, salt solutions, dilute acids and alkalies.	

- This Technical Data is the average results of tests, measurements and trials carried out by LAMA's own laboratory and according to international standards such as ASTM, B.S and UEAtc, Acceptable deviation according to UEAtc.
- This product data sheet supersedes all previous data publications pertaining to this product.
- This data may be changed, improved or modified by LAMA, in accordance with the Client's requirements, availability of raw material, without advance notice.