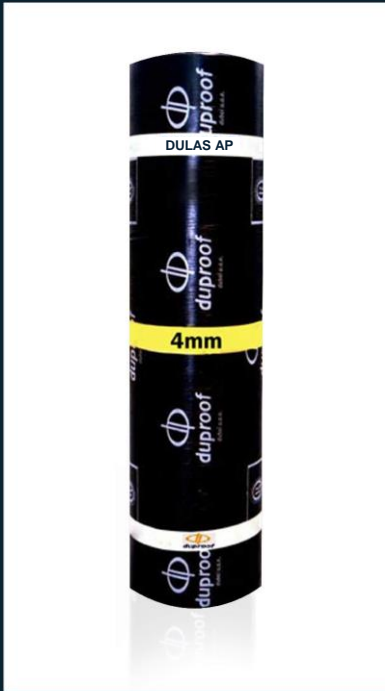




DULAS AP

(SBS-MODIFIED MEMBRANE)



DESCRIPTION

DULAS AP is a high-quality polymer-rich SBS modified bituminous torch-on membrane with a reinforcement core of spun-bound non-woven polyester mat, used as a capping layer in waterproofing system. The **DULAS** range belongs to the Elastoproof group of membranes produced using a special grade of bitumen modified with virgin SBS polymer. The polymer-rich mixture is used to saturate and coat both sides of the polyester mat to the required thickness of the membranes. The top surface of the membrane is laminated with a high-quality aluminum foil, which protects the membrane from weathering, UV rays and the bottom surface covered by torch able polyethylene foil.

FEATURES AND BENEFITS

- High mechanical properties: good movement accommodation; resistant to tear and puncture
- High resistance to hydraulic pressure: provides an impermeable and low absorption layer
- Wide temperature tolerance: stable in tropical climates; resistant to thermal ageing and shock
- High chemical resistance: withstands effects of salts and other corrosive agents in soil and water
- Versatile: available with a range of reinforcements, thickness and surface finishes for use in variety of applications

SPECIFICATION COMPLIANCE

DULAS AP membranes are tested in accordance with UEAtc(European union for technical agreement for construction industry) and can be tested as per ASTM D5147 (Standard Test Method), ASTM D6164 (Standard Specification) and other relevant international standards

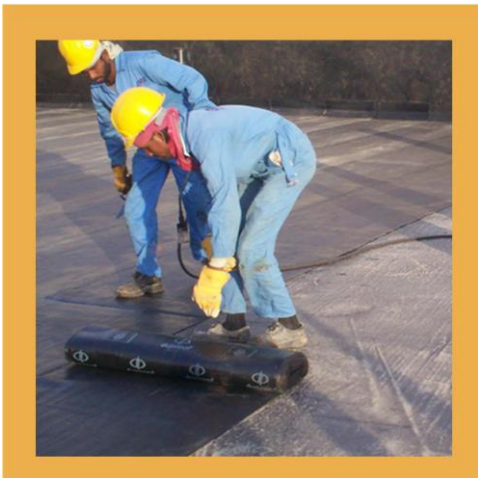
MAIN USES

DULAS AP membranes are used:

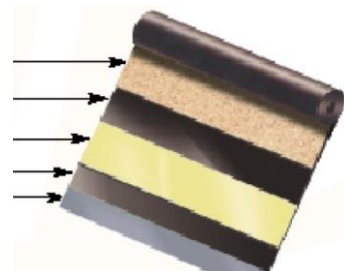
- As a capping layer in waterproofing systems
- Where reflectivity is required
- As a base flashing over the parapet

QUALITY ASSURANCE AND WARRANTY

Duproof is an ISO 9001 Quality Assured company and DULAS AP membranes carry a material warranty against any manufacturing defects



Aluminum Foil
SBS modified Bitumen
Spun Bond polyester
SBS Modified Bitumen
Polyethylene Foil



DULAS AP (SBS-MODIFIED MEMBRANE)

ISS 1/4/17, REV 0

METHOD OF APPLICATION

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 **DUPRIME** solvent based bituminous primer to all surfaces at 5-6 m²/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 100 mm side laps and 150 mm end laps between rolls, staggering the joints where possible. All seams must be heat sealed from the top to ensure watertight laps.

PACKING AND STORAGE

DULAS AP membranes are supplied in rolls of 1mX10m, shrink wrapped on pallets. Rolls must be kept upright on pallets under shade. **DULAS AP** pallets should not be stacked one over the other.

HEALTH AND SAFETY

There are no direct health hazards associated with **DULAS AP** membranes. Normal precautions for hot and volatile substances should be observed during application. Refer to our MSDS sheets for advice.

TYPE AND FINISH

Thickness	(mm)	3.0	4.0	5.0
Nominal weight	Kg / m ²	3.5	4.5	5.5
Dimensions	length X width	[m] 10 X 1		
Coating		SBS — modified bitumen		
Type of carrier		Spun bond Polyester 180/200/250 g/m ² polyester mat		
Top Surface		Alkali proof Aluminum foil		
Bottom Surface		Printed Polyethylene foil		

To order specify finish, reinforcement and thickness e.g. **DULAS AP-180** 4mm for 180g/m² polyester reinforcement and 4mm thick sheet membrane with Alkali proof Aluminum foil on the top.

TECHNICAL DATA

PROPERTY	UNIT METHOD	TEST	VALUE		
COMPOUND PROPERTIES					
Softening point	[° C]	ASTM D 36	118		
Penetration, @ 25°C	dmm	ASTM D 5	25 - 35		
Heat resistance, 2 hrs. @100°C		UEAtc	No flow		
Flexibility at low temperature	[° C]	DIN 52123	-5 to -7.5		
Water absorption	%	ASTM D 570	< 0.4		
MECHANICAL PROPERTIES					
Type of carrier	g/m ²		Spun bond Polyester mat		
			180	200	250
Tensile strength (LIT)	[N / 5 cm]	UEAtc	750/650	900/700	1050/850
Elongation (L/T)	[%]	UEAtc	40/45	45/50	50/55
Tear resistance (L/T)	N	UEAtc	220/235	230/245	250/265
Puncture resistance Static Dynamic		UEAtc	L ₄ Static @ 25 Kg I ₄ Dynamic @ 9 Joules		

In accordance with the standard up to 20% variation is expected

Tolerances on nominal values shown are as per UEAtc directives for polymer modified bitumen membranes. These data are correct at the time of printing but may be changed without any prior notice subject to clients requirements availability of raw materials or other conditions. This data sheet supersedes all previous publications pertaining to this product. All reasonable care has been taken in preparing this document, which to the best of our knowledge is accurate and true. Recommendations and suggestions are made in good faith and should only be considered for general guidance. No liability is assumed or taken by us in relation to the application, as usage conditions and any labour involved are beyond our control.