



DESCRIPTION

DULAS P 270 is a high-quality polymer-rich SBS modified bituminous torch-on membrane with a reinforcement core of spun-bond non-woven polyester mat, used for tanking and waterproofing of substructure areas in buildings and civil engineering projects where malleable composition is preferred.

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.

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 AND COMPLIANCE

DULAS P 270 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

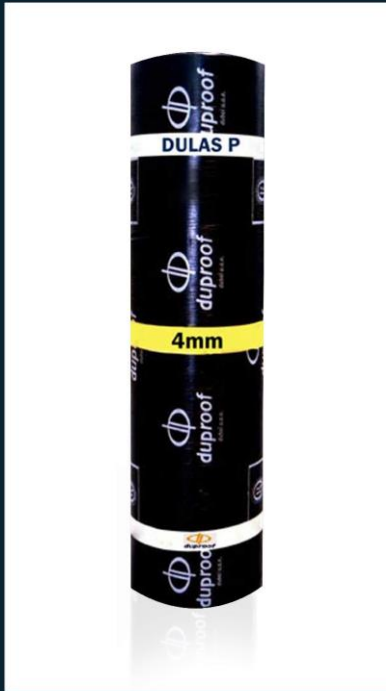
MAIN USES

DULAS P 270 membranes are used where a flexible, high performance waterproofing system is needed, such as:

- Substructure waterproofing of deep foundations 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, wet rooms, etc.
- Flat and pitched roofs, balconies, terraces, etc.
- Re-roofing works to the existing structures.

DULAS P 270

(SBS-MODIFIED MEMBRANE)

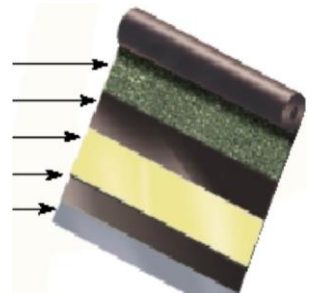


QUALITY ASSURANCE AND WARRANTY

Duproof is an ISO 9001 Quality Assured company and DULAS P 270 membrane carry a material warranty against any manufacturing defects.



Foil or sand or slate
 SBS Modified Bitumen
 Spun Bond Polyester Reinforcement (270 GSM)
 SBS Modified Bitumen
 Polyethylene Foil or Sand



DULAS P 270 (SBS-MODIFIED MEMBRANE)

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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 begin. 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.

Protection: For relevant areas like Substructure waterproofing or Tanking etc, once laid, it is recommended to protect the membrane from long-term exposure, construction abuse and backfill, preferably within 24 hours. On vertical areas **DUBOARD** is recommended; on horizontal surfaces a minimum 25 mm thick sand-cement screed may be used.

DULAS P 270 membranes are also suitable for partially bonded or loose laid installation. Contact the technical department of your local distributor for advice.

PACKING AND STORAGE

DULAS P 270 membranes are supplied in rolls of 1m X 10m and shrink wrapped on pallets. Rolls must be kept upright on pallets under shade. **DULAS P 270** pallets should not be stacked one over the other.

HEALTH AND SAFETY

There are no direct health hazards associated with **DULAS P 270** 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)	4.0	5.0
Nominal weight	Kg / m ²	4.5	5.5
Dimensions (length x width)	[m]	10 x 1	
Coating		SBS – modified bitumen	
Type of carrier		270 g/m ² polyester mat (P)	
Top Surface		Polymeric foil(F) or Sand(Q) or Slate(S) or(QQ) for both side sand surface and A (Aluminum)	
Bottom Surface (Torching side)		Printed Polyethylene Foil or Sand	

TECHNICAL DATA

PROPERTY	UNIT	TEST METHOD	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 -10
Water absorption	%	ASTM D 570	<0.4
MECHANICAL PROPERTIES			
Type of carrier	g/m ²		Spun-bond Polyester Mat 270
Tensile strength (L/T)	[N / 5 cm]	UEAtc	1200/900
Elongation (L/T)	[%]	UEAtc	55/60
Tear resistance (L/T)	N	UEAtc	250/300
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.