



DUPLAS HP

(APP-MODIFIED MEMBRANE)



DESCRIPTION

DUPLAS HP is a premium grade polymer-rich APP modified bituminous torch-on membrane with a reinforcement core of spun-bond non-woven polyester mat. Used for waterproofing of roofs, balconies, Multi-storey car parks and any concreted or cemented flat surface that need waterproofing in building and civil engineering projects.

The **DUPLAS HP** range belongs to the plastoproof group of membranes produced using a special grade of bitumen modified with Virgin APP 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
- High 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 wide range of reinforcements, thickness and surface finishes for use in variety of application

SPECIFICATION AND COMPLIANCE

DUPLAS HP 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 D6222 (Standard Specification) and other relevant international standards.

MAIN USES

DUPLAS HP membranes are used where a tough, high quality waterproofing system is needed, such as:

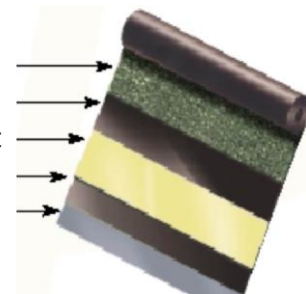
- Substructure waterproofing in buildings and civil engineering works (if specified).
- External surfaces of underground water reservoirs, pools and other liquid retaining structures (if specified).
- Floors of wet rooms in all type of buildings.
- Flat and pitched roofs, balconies, terraces, etc
- Re-roofing works in existing structures.

QUALITY ASSURANCE AND WARRANTY

Duproof is an ISO 9001 Quality Assured company and DUPLAS HP membranes carry a material warranty against any manufacturing defects.



Foil or sand or slate
APP Modified Bitumen
Spun Bond Polyester reinforcement
APP Modified Bitumen
Polyethylene foil



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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. If used as Slated surface for exposed application additional surface protection is not required.

Protection: If used in Substructure and underground tanks 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

DUPLAS HP membranes are also suitable for partially bonded or loose laid installation.

PACKING AND STORAGE

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

HEALTH AND SAFETY

There are no direct health hazards associated with **DUPLAS HP** 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		APP — modified bitumen		
Carrier		180/200/250 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		

To order specify finish, reinforcement and thickness e.g. DUPLAS HFP 200 4mm for foil finish, 200g/m² polyester reinforcement and 4 mm thick sheet membrane.

TECHNICAL DATA

PROPERTY	UNIT	TEST METHOD	VALUE		
COMPOUND PROPERTIES					
Softening point	[° C]	ASTM D 36	150		
Penetration, @ 25°C	dmm	ASTM D 5	14 - 21		
Heat resistance, 2 hrs. @110°C		UEAtc	No flow		
Flexibility at low temperature	[° C]	DIN 52123	-5 to -10		
Water absorption	%	ASTM 570	< 0.4		
MECHANICAL PROPERTIES					
Type of carrier	g/m ²		Spun bond Polyester mat		
			180	200	250
Tensile strength (L/T)	[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	L4 Static @ 25 Kg I3 Dynamic @ 9 Joules	L4 Static @ 25 Kg I4 Dynamic @ 9 Joules	

In accordance with the standard upto 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.