



# DUSEAL FP

(SELF - ADHESIVE MEMBRANE)



## DESCRIPTION

**DUSEAL FP** is a high quality self-adhesive sheet membrane with a reinforcement core of high quality non-woven polyester mat, used for a variety of waterproofing and damp-proofing applications in building and civil engineering works.

The **DUSEAL** range belongs to the Elastoseal group of membranes produced using a special grade of bitumen modified with virgin SBS polymer. The polymer-rich mixture is used to saturate and to coat both sides of polyester mat to the required thickness of the membrane.

## SPECIAL FEATURES

- Excellent mechanical properties: High resistance to tensile stress, tear and puncture.
- Excellent elongation and recovery characteristics: good movement accommodation and self-sealing to minor puncture and cuts.
- High resistance to hydraulic pressure: impermeable to water with low vapor transmission and water absorption values.
- Wide temperature tolerances: stable in tropical climates and flexible at lower temperatures
- High environmental resistance: Withstands the effect of salts and other corrosive agents in soil and air.
- Ease of application: Cold applied, with excellent adhesion to the primed horizontal and vertical surfaces in foundations, walls and floors.

## SPECIFICATION COMPLIANCE

**DUSEAL FP** membranes are tested to ASTM, UEAtc and other relevant international standards

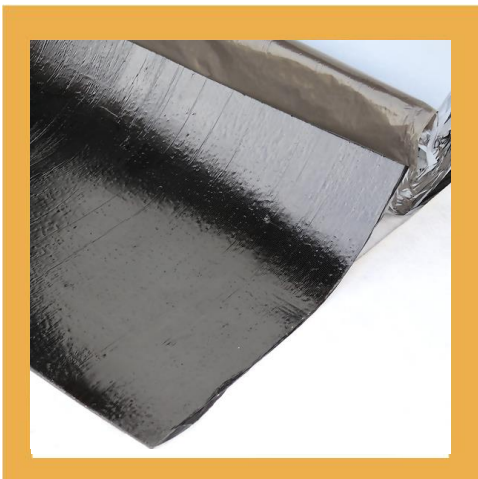
## MAIN USES

**DUSEAL FP** membranes are used in single layer or double layer applications for damp proofing and waterproofing works in building and civil engineering projects, such as:

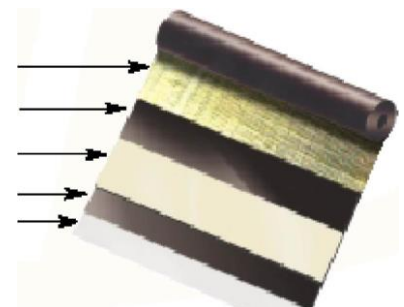
- Substructure waterproofing to foundations, footings, retaining walls, bridges, tunnels, manholes and chambers etc.
- External surfaces of underground water tanks, pools, fountains, etc.
- Floors of wet rooms in buildings, commercial and industrial complexes, etc.
- Under roof shingles in pitched roofs tiles in balconies, terraces, etc.

## QUALITY ASSURANCE AND WARRANTY

Duproof is an ISO 9001 Quality Assured Company and DUSEAL FP membranes carry a 10-year material warranty against any manufacturing defects.



Special polymeric foil  
SBS-Modified Self Adhesive Bitumen  
Spun-bound polyester reinforcement  
SBS modified self-adhesive bitumen  
Siliconized release foil / paper



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## METHOD OF APPLICATION

Surfaces, onto which the membrane is to be applied must 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 m<sup>2</sup>/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, measure and cut the membrane carefully as required before installation. Starting from one end, remove the release film and unroll the membrane, pressing firmly by hand and/or roller from the top to ensure full bond with no air pockets. Maintain a minimum of 80mm side laps and 150mm end laps between rolls and stagger the joints where possible. Press and roll laps from top to ensure a continuous seal.

**Protection if required:** Once laid, the membrane must be protected from long-term exposure, construction abuse and backfill, preferably within 24 hours. On vertical areas Duproof **DUBOARD** protection boards is recommended; on horizontal surfaces a minimum 25 mm thick sand-cement screed may be used.

Contact the technical department of your local distributor for advice.

## PACKING AND STORAGE

**DUSEAL FP** membranes are supplied in rolls 1m x 15m shrink wrapped on pallets. Keep rolls upright on pallets under shade. **DUSEAL FP** pallets should not be stacked one over the other.

## HEALTH AND SAFETY

There are no direct health hazards associated with **DUSEAL** 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	2.0	3.0
Nominal weight	Kg / m <sup>2</sup>	2.3	3.3
Dimensions (length x width)	m	15 X 1	10 X 1
Top Surface		Special polymeric foil ( <b>F</b> )	
Type of Carrier	g/m <sup>2</sup>	150 (Non-woven Polyester)	
Bottom Surface		Siliconized removable foil	

To order specify reinforcement and thickness e.g. DUSEAL FP150 2 mm for 150 g/m<sup>2</sup> polyester reinforcement and 2 mm thick self-adhesive sheet membrane. Specific length & thickness available upon request.

## TECHNICAL DATA

PROPERTY	UNIT	TEST METHOD	VALUE
<b>COMPOUND PROPERTIES</b>			
Softening point	[°C]	ASTM D 36	110
Flexibility at low temperature	[°C]	DIN 52123	≥ - 20
Heat resistance @ 90°C / 2 hrs	[°C]	UEAtc	No flow
Water absorption after 24 hrs.	[%]	ASTM D 570	< 0.15
Elongation (L/T) Compound	[%]	ASTM D412	> 1500
<b>MECHANICAL PROPERTIES</b>			
Tensile strength (L/T)	[N/5 cm]	UEAtc	570/450
Elongation (L/T)	[%]	UEAtc	40/45
Tear Resistance (L/T)	N	ASTM D-4073	245/243

Tolerance based on testing standard.

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.

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