



LAMAFLEX



SBS Modified Bitumen Membrane

Introduction:

LAMAFLEX modified waterproofing membrane is highly elastic torch applied, modified with Styrene Butadiene Styrene (SBS) to provide an extreme cold flexibility under severe cold weather, and reinforced 200g/m² nonwoven spunbonded polyester to insure exceptional strength for the membrane.

Description:

LAMAFLEX waterproofing membrane is manufactured from high quality distilled bitumen modified with the SBS to provide an extreme low cold flexibility at -20°C. Reinforcement is provided by 200g/m² nonwoven fabric spunbond polyester to give ultimate elongation and to provide the membrane with the required resistance to heat aging, puncture and rotting.

The lower surface is covered with a burn-off polyethylene film, while the upper surface is covered with polyethylene film, fine sand, or colored slates when used as exposed top layer to guard from UV and to provide a weather protection surface with appealing decorating color.

Advantages:

- ❑ Excellent elasticity.
- ❑ High flexibility at low temperatures.
- ❑ Resistance to aging.
- ❑ High puncture and tear resistance.
- ❑ Good resistance to acids, sulphates and chlorides.

Standards:

LAMAFLEX meets the requirement of ASTM D 6164 Type I and II

Uses:

- ❑ Lay down the rolls so that the lower face with polyethylene 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. Side laps 100 mm and end laps 150 mm.
- ❑ The membrane may be loosely laid, partially or fully bonded, depending on the structure and the specifications.

Field of Application:

Due to its very low cold pliability, **LAMAFLEX** is used in areas where severe weathering conditions are expected such as:

- ❑ Roofs (reinforced concrete, prefabricated concrete, metal and timber deck).
- ❑ Multi-story car parks.
- ❑ Underground foundations, basements, and retaining walls.
- ❑ Reservoirs, basins and canals.
- ❑ Swimming pools.

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Technical Specifications

Property	Result	Test Method
Dimension, m/roll	1x10	
Thickness, mm	4, or 5	ASTM D5147
Weight per roll, Kg	52 or 62	UEAtc MOAT 30
Reinforcement	Nonwoven Spunbonded Polyester 200 g/m ²	BS 747
Surface	Plain, or fine sand, or slates	
Penetration at 25°C, dmm	15 - 30	ASTM D5
Softening point, °C	≥130	ASTM D36
Heat Resistance	No flowing after 2 hours at 102 °C.	UEAtc MOAT 30
Cold Pliability	No cracking at -20°C	UEAtc MOAT 27
Tensile Strength, N/5cm		ASTM D5147 & D146
Long.	950	
Transv.	850	
Ultimate Elongation,%		ASTM D146
Long.	50	
Transv.	50	
Tear Strength @ 23°C, N.		ASTM D5147
Long.	450	
Transv.	325	
Static Indentation Resistance	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 ² per day	ASTM E96
Chemicals Resistance.	Resistant to alcohol, salt solutions, dilute acids and alkalies.	

- Acceptable deviation according to UEAtc.
- This Technical Data are the average results of tests, measurements and trials carried out by LAMA's own laboratory and RSS laboratories according to international standards such as ASTM, B.S and 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.