



ELASPHALT

THE NEW GENERATION 3170 4170 5170

SBS MODIFIED BITUMINOUS MEMBRANE



PUBLICATION NO.: 205/R-3/E/FEB '05



GENERAL

A high performance elastomeric waterproofing membrane which combines the ability to withstand high ambient temperature with the usual characteristics of an SBS membrane of high flexibility at low temperature that makes it easy to apply at sub-zero temperature.

It is suitable for all types of waterproofing works including roofs, foundation works, basement tankings, where high flexibility and malleability are required.

SPECIAL FEATURES:

- Positive vapour barrier
- Excellent resistance to atmospheric agents
- High flexibility during application at sub-zero temperature with no physical strains
- High malleability making it entirely suitable for difficult basement and foundation works.
- High softening point allowing it to maintain shape stability at high temperatures.
- Withstand thermal shocks
- Accommodates structural movements
- Resistant to chemical attacks.

THICKNESS, SIZE AND SURFACE FINISH

ELASPHALT is available in 1 x 10 metre rolls and in thicknesses of 3mm (3170), 4mm (4170) and 5mm (5170). It is covered either with polyethylene film or sand at the back and comes in a variety of surface finishes; sand, polyethylene film, slated or aluminium.

The slate can be natural grey, white, black or green or any other colour depending on stock availability.

REINFORCEMENT CORE AND COATING MIXTURE

ELASPHALT waterproofing membrane is reinforced with 180 grams non-woven spunbond polyester reinforcement that gives the membrane dimensional stability and resistance to puncture. It is coated with a specially formulated mixture of SBS modified bitumen which makes the membrane resistant to water, atmospheric agents, and malleable at low temperature while retaining a high softening point.

APPLICATION

The membrane must first be unrolled and laid down on the area to which it is to be applied. Check the orientation carefully. Adjacent rolls should then be laid, each overlapping the one next to it by 10 cms on the side and 15 cms at the ends. Taking care not to change the orientation of each roll, reverse the process until each has been re-rolled. **We recommend you read our "Application Procedures" for a comprehensive explanation of the process.** When laying the roll, the lower surface should be heated with a propane torch, using sweeping left to right movements. This will melt the lower surface of the membrane and allow it to stick to the substrate. On slated membranes you should either remove the special selvedge paper or on sand bottom rolls torch the special polypropylene selvedge. Continue this process for each subsequent roll, remembering that the overlaps must be 10 cms for the edges and 15 cms at the ends. When the process is complete, carry out an inspection to ensure total adhesion.

ELASPHALT

TECHNICAL DATA

DERMABIT PRODUCTS ARE TESTED AT RANDOM INTERVALS BY INDEPENDENT LABORATORIES TO INTERNATIONAL STANDARDS AND THE RESULTS OF THESE TESTS ARE AVAILABLE ON REQUEST. IN ADDITION, EACH BATCH MANUFACTURED IS SUBJECT TO STRICT QUALITY CONTROL PROCEDURES TO ENSURE IT MEETS APPROPRIATE AND APPLICABLE STANDARDS AND/OR NORMS.

PROPERTIES		VALUES			METHOD OF TESTING
		ELASPHALT 3170	ELASPHALT 4170	ELASPHALT 5170	
Thickness (±)		3mm	4mm	5mm	ASTM D751
Reinforcement base		180 gms/m ² Non woven Spunbond Polyester mat			
Softening Point (R+B) of Coating Mixture		≥ 135 °C			ASTM D36
Penetration of coating mixture at 25°C		20-35 dmm			ASTM D5
*Flexibility at low temperature		-10 to -20°C			UEAtc
Service Ambient Temperature		-40 to 80°C			
TENSILE STRENGTH	Longitudinal Transverse	850 N/5cm 700 N/5cm		UEAtc	
ELONGATION	Longitudinal Transverse	50% 55%		UEAtc	
TEAR RESISTANCE	Longitudinal Transverse	550 N 350 N		ASTM D5147	
LAP JOINT STRENGTH	Longitudinal Transverse	> 850 N/5cm > 700 N/5cm		UEAtc	
PUNCTURE RESISTANCE	Static Dynamic	L4 (Not perforated at 25 Kgs., 10 mm ball) I 4 (not perforated at 9 Joules impact energy, 5 mm ball)			UEAtc
HEAT FLOW RESISTANCE, 100°C, 2hrs		No Flow			UEAtc
Water Absorption		Less than 0.15 %			ASTM D570
Impermeability of the Membrane to Water		Absolutely Impermeable			UEAtc
Resistance to Thermal Ageing		No Signs of Deterioration after the test			UEAtc
Resistance to Ageing due to UV-Radiation		No Signs of Deterioration after 2000 hours			ASTM G53
Water Vapour Permeability		Absolutely Impermeable			ASTM E96
Hydrostatic Pressure Resistance		> 110 PSI			DIN 1048
DERMABIT membranes are resistant to chlorides, sulphates and phosphates found in ground water.					

*Flexibility at low temperature can be altered depending on prevailing climatic conditions or client's request.

PACKING : ELASPHALT 3170 30 Rolls per pallet
 ELASPHALT 4170 23 Rolls per pallet
 ELASPHALT 5170 18 Rolls per pallet

The above data are average figures obtained from the tests of various samples and are subject to the tolerances defined in the specified test methods.

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