SBS MEMBRANE

Product Data Sheet
Edition 3, 2008
Identification no. UNSBS024
UNIFLAME - SBS

UNIFLAME® SBS
Torch Applied Membrane

Description	UNIFLAME SBS high performance membranes are manufactured for use in inverted roofing and substructure waterproofing systems. The membrane incorporates the most advanced materials and manufacturing techniques to achieve high levels of performance and reliability. UNIFLAME consists of high strength carrier of 200 gm/m2 non-woven polyester fibers saturated with an elastomeric blend of SBS (Styrene Butadiene Styrene) modified bitumen. This makes a compound that ensures stability and flexibility giving excellent long-term tolerance to water and high temperatures, for exceptional mechanical strength and stability. The reinforcement is rot proof.
Where to Use	Foundation, Basement, Tanking, Inverted Roofs
Advantages	• Excellent protection for sub-grade concrete • Designed for heavy duty industrial applications • Exceptional flexibility and elongation • High bonding strength to substrate with outstanding seam integrity.
Standards	UNIFLAME SBS membranes conform to the following standards ASTM D6164 Type 1 and 3. UEAtc MOAT 27 1983. MOAT 31 1983. MOAT 31 1984, UNI and CGSB.
Packaging	UNIFLAME SBS is available in thicknesses of 3, 4 and 5mm. Each roll is 10x1 meters in dimension. Rolls have a PE finish on each side which is a “fugitive” i.e. melts when the membrane is torched.
How To Use **Surface Preparation**	The surface to be waterproofed is to be, clean, dry and dust free. All mold oil, protruding nibs and nails must be removed. All roof screed must be clean and dry.
Preparation work	The surface should be cleaned and prepared to achieve a laitance and contaminant free, smooth texture surface by utilizing the mechanical means necessary. A coat of primer must be applied to the concrete surface at the rate of 200-300 gms/m2 . The primer should be allowed to dry before the application of the membrane.

UNIROOF®

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How To Use

Application

The membrane should be heat welded to the surface and an overlap of 100mm should be allowed for at the ends and sides of each sheet. A thin bead of molten bitumen will be extruded from the seams located at the end and lap joints, which should be smoothed with a small trowel to ensure an optimal seal.

Technical Data

Properties	Typical Values	Method of Test
Nominal Thickness	3, 4, 5 mm	ASTM D 751, UEAtc
Penetration (DOW)*	25 ±10 dmm	ASTM D 5
Softening Point	≥ 110°C	ASTM D 36
Low Temperature Flexibility	-10°C	UEAtc
Water Absorption	< 0.12 Wt	ASTM D 570
Heat Resistance, at 80°C for 2 hrs	No Flow	UEAtc
Impermeability to Water	Absolute	UNI 8202
Vapour transmission rate	<0.287 gr/m^2/24hrs	ASTM E96
Resistance to Ageging and UV	No Deterioration	ASTM G53
Reinforcement Core	Non Woven Polyester 200 gms/m^2	
Tensile Strength	Longitudinal 900N/5cm Transverse 700N/5cm	UEAtc, ASTM D 146
Tear Strength	Longitudinal 225 N Transverse 250 N	UEAtc
Elognation	Longitudinal 42 % Transverse 48 %	UEAtc, ASTM D 146
Puncture Resistance	Static @ 25 kg L4 Dynamic @ 25 kg l4	UEAtc
Adhesion Strength Fully Bonded to Primed Concrete Deck	1.15 kg/cm^2	UNI 8202

The technical data given above are average values the results of which were carried out on the membrane. These tests are the Industry Standard for this type of material and comply with the criteria stipulated in: UNI, UEAtc, ASTM, C.P 102, DIN and CGSB. Uniroof International Limited reserves the right to change or modify the data without prior notice.

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