Product Data Sheet
20213
Identification no. UNSBS019
COPOLENE - SBS

SBS MEMBRANE

COPOLENE® SBS

Torch Applied Membrane

Description

COPOLENE is a prefabricated membrane made of SBS elastomers that intensify its elasticity and it has the same characteristics as the synthetic membranes, having an elongation of the pure mixture that reaches 1500%.

COPOLENE membranes are reinforced with a non-woven 180 gsm polyester core for superior mechanical strength and shape stability. The reinforcement is rot proof and robust and highly flexible.

The top and bottom surface of the membrane is covered with a thin layer of PE film.

The 1 mtr. Wide membranes are produced in thicknesses of 4mm and 5mm and in a standard length of 10 mtrs.

Where to Use

Foundation, Basement, Tanking, Inverted Roofs, Balconies and Wet Areas

Standards

COPOLENE membranes conform to the following standards ASTM D6164 Type 1 and 3. UEAtc MOAT 27 1983. MOAT 31 1983. MOAT 31 1984 and CGSB.

How To Use

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.

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.

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.

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TECHNICAL DATA ON COPOLENE

ACCORDING TO THE STANDARD	BEHAVIOURS	UNIT OF MEASURE		VALUES	
DATA ON BITUMINOUS COMPOUND					
ASTM D36-76	Softening point R&B	°C	°F	≥ 115	≥239
ASTM D 5-73	Dow penetration @ 25 °C (77 °F)	dmm		28	
DATA ON FINISHED MEMBRANE					
UEAtc	Aeric mass	Kg/m^2	lbs/sq.ft	4,500 ± 0,315	0,92 ± 0,064
UEAtc, ASTM D146	Tensile strength at break	da N/5cm	lbs/in	Long. 90/102,9	Transv. 80/91,4
UEAtc, ASTM D146	Elongation at break	%		Long. 50	Transv. 50
UEAtc	Tear strength	da N	lbs	Long. 17/ 38,3	Transv. 18/40,5
UEAtc	Permanent set	%		Long. ≤5	Transv.≤ 5
UEAtc	Static punching resistance steel ball Ø10mm (0,39") Applied load which damages the membrane on rigid soft support after 24 hrs	Kgs	lbs	On asbest - cement	
				> 25	> 55
UEAtc	Stress induced by restrained thermal shrinkage	da N/5cm	lbs/in	Long. 6 / 6,9	Transv. 6/6,9
UEAtc	Cold bending	°C	°F	-10	14
UEAtc	Flowing @ 70 °C (158 °F)	mm	in	<5	< 0,20
UEAtc	Dimensional stability after 28 days @ 70 °C (158 °F)	%		Long. ±0,5	Transv. ± 0,5
UEAtc	Hot shape stability	°C	°F	≥ 100	≥ 212
UEAtc	Linear thermal expansion between 20°C (68°F) and -20°C (-14°F)	cm/cm °C	In/in°F	Long. & Transv. 30x10^{-6}	Long. & Transv. 54 X10^{-6}
UEAtc	Waterproofing	KPa	ATM	>150	> 1,5
UEAtc, ASTM D570	Behavior in water (absorption)	%		< 1	
UEAtc	Water vapor permeability resistance factor ų	-		80.000	
DIN 16935	Water pressure resistance	KPa	ATM	400	4
ASTM E96	Water vapor transmission	g/m^2/24hrs		< 0.2	

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