

SELF-ADHESIVE SBS BITUMEN MEMBRANE

PRODUCT DESCRIPTION:

Pro-Struct 1003 is a self-adhesive, cold applied SBS waterproofing membrane with a dual reinforced composite. It has a release film on the under layer while the upper surface is covered with one of the following surface finish materials:

Pro-Struct 1003 Polyethylene film
Pro-Struct 1003M Mineral granules

USES:

- Waterproofing of protected roofs
- Waterproofing of concrete, masonry and wood surfaces
- Waterproofing of cold pipes, ridges and hips, and planter boxes
- Waterproofing of footings and foundation walls above and below grade
- Retaining walls, sub-structures waterproofing and basement tanking
- The mineral surfaced membrane is ideal as a top finish layer in double layer roofing system on exposed roofs and flashings of upstands and parapets.

PROPERTIES:

- Safe in application, no torch used, no hazardous fumes involved.
- Easy to apply.
- No special tools needed for application. Applicator tools comprise of a brush, a cutter and a rubber roller.
- Suitable for roofing and re-roofing of historical structures, combustible deck structures, healthcare and educational facilities.
- Polyester reinforced establishes membrane's high tensile strength, puncture resistance, and dimensional stability.
- It is a flexible membrane that easily accommodates substrate movement.
- Excellent barrier against vapour and water above the below ground.
- Provides protection for sub-structure against corrosive ground water and salts.
- Seldedge strip provides bitumen to bitumen seal, ensuring water tightness at longitudinal joints.

APPLICATION TEMPERATURE:

Ideal application temperature is 10 to 40°C. For lower temperatures, it is essential to heat the primed surface prior to application using a torch or hot air. At temperatures above 40°C, it may be difficult to remove the release film and material needs to be relocated to a cooler area.

PACKAGING:

Roll size: 15m x 1m

SURFACE PREPARATION:

Surfaces must be clean, sound and dry. All surfaces must be free from oils and grease and laitance removed from cementitious surfaces.

PRIMING:

All surfaces to receive membrane must be clean, dry and free of any oils or loose material. **Pro-Struct 201** is a one-part solvent-based bituminous primer and is ready for use. Application must be done by brush or roller. Primer must be allowed to dry completely prior to overcoating to prevent entrapment of solvents. Allow the primer to completely cure (2 to 6 hours) and apply membrane no later than 24 hours from priming. Re-prime areas if contaminated by dust. If not applied within 24 hours after priming, reprime.

FIXING MEMBRANE:

- Peel back the release film no more than 30cm at a time with adhesive side facing primed surface.
- Press down the membrane against the substrate with a rubber / wooden roller, starting from centre to side edges in order to expel any entrapped air.
- For vertical application, installation shall be in approximately 2.5m manageable lengths.

OVERLAPS:

- Membranes are produced with seldedge to facilitate bitumen to bitumen strong lap joint.
- Side laps shall be 7 to 10cm, and end laps 15cm minimum.
- After removing seldedge release film, press down firmly against side and end laps, with the help of a light roller.

PROTECTION AGAINST BACKFILL:

Membrane should always be protected to avoid damage caused by other trades, backfill material, tools or earthmoving equipment.

STORAGE:

6 Months in original packaging, stored in cool, dry conditions, protected against weathering. Open package immediately before laying.

Store vertically, never stacked. If stored at temperatures below 20°C, leave exposed to warmer temperatures before application for 6 to 8 hours.

APPLICATION INSTRUCTIONS

These instructions are not intended to show product recommendations for specific service. They are issued as an aid in determining correct surface preparation, mixing instructions and application procedure. It is assumed that the proper product recommendations have been made. These instructions should be followed closely to obtain the maximum service from the materials.

Properties		Test	Unit	Test Method	Tolerance	Pro-Struct 1003	Pro-Struct 1003M		
Dimensional Properties		Thickness	mm	EN-1849-1	± 5%	1.7	-		
		Weight (Mass per Unit Area)	kg/m²	EN-1849-1	± 10%	-	3		
		Determination of Width	m	EN-1848-1	± 1%	1	1		
		Determination of Length	m	EN-1848-1	± 1%	20	20		
		Straightness (Ortometry)	mm	EN-1848-1	-	± 10	± 10		
Compound Properties		Softening Point (R&B)	°C	ASTM D-36	Min	70	70		
		Compound Elongation	%	UNI 8202/8	± 15%	1200	100		
Membrane Properties		Mechanical Properties		Tensile Strength – Longitudinal	N/50mm	EN-12311-1	± 20%	400	600
				Tensile Strength – Transverse	N/50mm	EN-12311-1	± 20%	300	400
				Elongation at Break – Longitudinal	%	EN-12311-1	± 15%	30	40
				Elongation at Break – Transverse	%	EN-12311-1	± 15	45	50
				Tearing Strength – Longitudinal (nail shank)	N	EN-12310-1	± 30%	175	175
				Tearing Strength – Transverse (nail shank)	N	EN-12310-1	± 30%	300	300
				Tensile Tear Resistance – Longitudinal	N	ASTM D-5147. D-4073	± 30%	400	750
				Tensile Tear Resistance – Transverse	N	ASTM D-5147. D-4073	± 30%	225	400
				Resistance to Static Loading	kg	EN 12730 Method A	Min	10	20
				Dynamic Puncturing (impact resistance)	mm	EN 12691 Method B	Min	400	750
		Thermal Properties		Flow Resistance at Elevated Temperatures	°C	EN-1110	Min	60	60
				Flexibility at Low Temperatures ⁽¹⁾	°C	EN-1109	-	-25 to -20	-25 to -20
				Dimensional Stability	%	EN-1107-1	Max	± 0.3	± 0.3
				Water Impermeability – Watertightness at Low Pressure	60 KPa	EN-1928 Method A	-	Passed	Passed
				Water Impermeability – Watertightness at High Pressure ⁽²⁾	KPa	EN-1928 Method B	Min	100	200
		Miscellaneous Properties		Water Absorption	%	ASTM D-5147	Max	< 1	< 1
				Vapour Permeability	μ	EN 1931	-	-	-
				Fatigue Resistance on Cracks	200 cycles	UNI 8202/13	-	Passed	Passed
					500 cycles		-	Passed	Passed
				Shear Resistance of Joints – Longitudinal	N/50mm	EN-12317-1	± 20%	400	600
				Shear Resistance of Joints – Transverse	N/50mm	EN-12317-1	± 20%	300	400
				Thermal Ageing in air (<i>in oven 28 days at 70°C</i>)	-	UNI 8202/26	-	-	-
				Ageing due to Atmospheric Agents (<i>UV test weathering</i>)	-	ASTM G-53 UNI 8202/29	-	-	-
				Fatigue Resistance at Joints	200 cycles	UNI 8202/32	-	Passed	Passed
					500 cycles		-	Passed	Passed
				Fire Classification – External Fire Performance	Class	EN 13501-5 / ENV 1187	-	F Roof	F Roof
				Reaction to Fire	Class	EN 13501-1	-	E	E
				Adhesion of Granules	%	EN-12039	Max	-	≤ 30
				Adhesion to Concrete	N/50mm	Pelage UEAtc	-	25	25
				Resistance to Root Penetration	-	EN-13948	-	-	-
Supply Data		Weight	kg/m²	-	-	2	3		
		Thickness	mm	-	-	2	3		
		Roll Length	m	-	-	20/15	10		
		Roll Width	m	-	-	1	1		
		Surface Finish - S: Sand SL: Slates							
		Upper Surface Finish	-	-	-	S	SL		
		Lower Surface Finish	-	-	-	Silicone Release Film	Silicone Release Film		

The declared average values represent the best performance achieved at the present state of our knowledge. StonCor Africa reserves the possibility to change, without warning, the technical characteristics in order to make the product more responding to the application requirements. The choice of the type of membrane for the kind of use is at the purchaser's discretion.

Tolerances for the above values if not mentioned are according to the UEAtc directives:

- Exact value depends on thickness of the product
- Deviating from the standard method. This assessment is made in 1 hour test, 4mm or 4.5kg/m² products.

CAUTION: MAY CONTAIN FLAMMABLE SOLVENTS. KEEP AWAY FROM SPARKS AND OPEN FLAMES. IN CONFINED AREAS WORKMEN MUST WEAR FRESH AIRLINE RESPIRATORS. HYPERSENSITIVE PERSONS SHOULD WEAR GLOVES OR USE PROTECTIVE CREAM. ALL ELECTRONIC EQUIPMENT AND INSTALLATIONS SHOULD BE MADE AND GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. IN AREAS WHERE EXPLOSION HAZARDS EXIST, WORKMEN SHOULD BE REQUIRED TO USE NON-FERROUS TOOLS AND TO WEAR CONDUCTIVE AND NON-SPARKING SHOES.



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