SA Flex Base Sheet – *SA-102*

Technical Data Sheet

Product Description

SA Flex Base Sheet is a SBS polymer modified self-adhesive roofing membrane. This membrane is reinforced with stabilised non-woven polyester which provides high mechanical resistance and high dimensional stability. The bottom face of the membrane is coated with a self-adhesive elastomeric compound which adheres via pressure to the laying surface. This face is protected by a silicone release film which is removed during the application process. The upper face of the membrane is covered with a polyethylene film.

SA Flex base Sheet is designed to offer the waterproofing security of traditional torch applied membranes when flame or hot works are either not allowed or will be a fire risk. The membranes laps feature a self-adhesive compound covered in a protective strip of silicone release film, this allows the laps to be sealed without the need for flame and does not risk burning heat sensitive insulation board or other materials.

Features:

- ✓ The Best Rubber Technology
  - SA Flex Base Sheet has been formulated using only the highest grade of SBS rubber. The SBS compound ensures superior low temperature flexibility. Adequate mixing provides proper phase inversion, which optimises the rubber's performance.
- ✓ Security in Multi-Ply Applications
  - SA Flex Base Sheet is the underlay component of a multiply roofing system. It combines the inherent advantages and proven performance of multi-ply protection with the strength, flexibility and elongation of elastomeric systems.
- ✓ Safer
  - The SA Flex Base Sheet is designed to be applied without using a naked flame and is therefore inherently safer that traditional torch applied membranes where there is a risk of causing fire within sensitive roof details.

Uses

SA Flex base Sheet should be used in conjunction with Garland's StressPly Flex SA as a two layer waterproofing system. This system can be applied over wood, concrete or mineral coated glass tissue insulation board.

Application Instructions

The substrate should be clean, dry, free of debris and dust. Porous materials such as concrete, wood, brick etc. should be primed with Garland's Garla-Prime bituminous primer prior to application. During low temperatures or on particularly difficult substrates the area must be first primed with Garland's SA Contact Primer prior to application. If in doubt you must consult your Garland Regional Technical Representative or contact the technical department.

Position the roll in place and remove the silicone-coated film from the underside of the membrane, simply overlap the sheets at the side by at least 10 cm and press with a weighted roller to ensure good adhesion. If necessary use hot-air welding equipment to ensure a watertight seal. The head laps should be hot-air welded and overlapped by at least 150 mm.

Note - SA Flex Base Sheet should not be applied in temperatures below 5˚C. At temperatures below 10˚C careful attention needs to be paid to ensure a good bond of the self-adhesive agent to the substrate and the SA Contact Primer must be used in these instances.

Technical Data

Reinforcement type:	Stabilised non-woven polyester.	
Compound type:	Bitumen modified with thermoplastic rubber (SBS).	
Surface finishing:	Upper side: Polypropylene film.	Lower side: Silicone release film

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Properties	Norms	Unit	Value	Tolerance
Physical Data				
Type of compound			SBS	
Type of reinforcement			Stabilised non-woven polyester	
Finish upper face			Polypropylene fabric	
Finish lower face			Silicone release film	
Length	EN 1848-1	m	10	±1%
Width	EN 1848-1	m	1	±1%
Thickness	EN 1849-1	mm	3	±5%
Mechanical Data				
Watertightness	EN 1928	kPa	60	≥
Cold temperature flexibility	EN 1109	°C	-25	≤
Face Flow resistance	EN 1110	°C	100	≤
Tensile strength L	EN 12311-1	N/5 cm	400	±20%
Tensile strength T	EN 12311-1	N/5 cm	300	±20%
Elongation at break L/T	EN12311-1	%	35/40	15% (v.a.)
Shear strength Joint L/T	EN 12317-1	N/5 cm	350/250	±20%
Nail tear strength L	EN12310-1	N	140	±30%
Nail tear strength T	EN12310-1	N	140	±30%
Static puncture resistance	EN 12730	kg	10	≥
Dynamic puncture resistance	EN 12691	mm	700	≥
Fire Performance				
Fire resistance	EN 13501-5		F ROOF	
Fire reaction	EN 13501-1		E	
Application Data				
Minimum application temp		°C	5	
Minimum slope		%	1.5	

If you require any further information please contact your local Garland Technical Manager.

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Recommendations

The rolls shall be stored in an upright position, preferably indoors in a dry and ventilated conditions and shall be protected from extreme cold, temperature should be above 0°c, to avoid possible deformation and or embrittlement of the same drainage system.

The rolls shall be stored in their original packaging and not stacked more than two pallets high, using appropriate wooden spacers.

The materials on stock should be rotated following a first in first out rotation.

The rolls shall be kept in a warm or heated storage area during application, should the workability of the material deteriorate or become stiff and difficult to install during application, these should be returned to the heated storage area and substituted with new rolls.

The rolls that are temporarily stored on the roof before application, shall be kept elevated by being left on their own pallets and shall be covered and protected from the weather.

The application surface must be smooth, free of moisture, ponding water and dust, the area must be provided with an adequate drainage system (minimum slope shall be 1.5%).

The application surface shall be primed with a bituminous based product and allowed to dry prior to application, do not apply in adverse weather conditions or in the presence of imminent rain.

In case of application on vertical (higher than 2 meters) or considerable slopes, appropriate mechanical fixings should be taken into consideration.

The minimum application temperature is + 5°C.

The material without mineral self-protection and used as a top layer (cap sheet) can be painted with an aluminium coating to improve and extend the performance and life expectancy, the material should be allowed to oxidize approx. 3-6 months before being coated.

The pallets on which the rolls are packaged are intended for normal warehouse use.

* It is impossible to guarantee the colour uniformity on self protected mineral membranes as the suppliers of the same do not provide any also. All self protected mineral finished membranes undergo colour variations over time due to the exposure to atmospheric agents. Normally these variations in time will gradually become uniform.

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