



StressPly Flex SA

PRODUCT DESCRIPTION

StressPly Flex SA is a SBS polymer modified self-adhesive roofing membrane. This membrane is reinforced with non-woven composite polyester fabric stabilised with fibreglass 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 protected by mineral slates excluding one side lap, which is covered by a strip of silicone release film.

StressPly Flex SA is designed to offer the security of traditional torch applied membrane at critical areas in the contraction of the waterproofing flat roofs. The laps are one such critical areas and these can be either torch sealed or hot air welded to guarantee watertightness. The bottom face of the side lap is covered with a polypropylene textured fabric allowing for a partial self-adhesive bond of the membrane, this feature allows flame to be used to seal the laps and not risk burning heat sensitive insulation board or other materials.

FEATURES AND BENEFITS

The Best Rubber Technology

StressPly Flex SA has been formulated using only the highest grade of SBS rubber. The StressPly Flex SA SBS compound ensures superior low temperature flexibility. Adequate mixing provides proper phase inversion, which optimises the rubber's performance.

Security in Multi-Ply Applications

StressPly Flex SA is the top component of a multi-ply 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 StressPly Flex SA membrane is designed to be applied without using a naked flame and is therefore inherently safer than traditional torch applied membranes where there is a risk of causing fire within sensitive roof details.

USES

StressPly Flex SA should be used in conjunction with Garland's SA Flex Base Sheet as a two layer waterproofing system. This system can be applied over wood, concrete or foil faced insulation board.

APPLICATION INSTRUCTIONS

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 8 cm and 2 cm beyond the non-slatted area on the upper surface. Ensure to press the overlap area very carefully so that the self-adhesive 2 cm strip on the lower face is met, this will act as a flame barrier seal for the subsequent hot air sealing method of the remaining 6 cm. By doing this the thermal insulation or underlying substrate is not damaged by the high temperatures of the hot air welder or flame.

The head laps should be hot air welded and overlapped by at least 15 cm.

Note - StressPly Flex SA 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 underlying surface or membrane. This may require gentle heating of the membrane using heating appliances or a very light flame if necessary.

Refer to specific specifications provided by your Regional Technical Manager.

TECHNICAL DATA

Reinforcement type:

Non-woven composite polyester stabilised with fibreglass

Compound type:

Bitumen modified with thermoplastic rubber (SBS).

Surface finishing:

Upper side: Slate granules.
Lower side: Silicone release film.

StressPly Flex SA

Characteristic	Test Method	Expression of result	Value	Units	Tolerance
Length	EN 1848-1	MLV	10	m	≥
Width	EN 1848-1	MLV	1	m	≥
Mass per unit area	EN 1849-1	MDV	4.0	kg/m ²	± 10%
Watertightness	EN 1928:2000 Method B	Pass	60	kPa	≥
External fire performance	ENV 1187	In accordance with EN 13501-5	F _{roof}	-	
Reaction to fire	EN 13501-1	EN 13501-1	Euroclass E	-	
Peel resistance of joint	EN 12316-1	MDV	NPD	N/50 mm	-20 N
Shear resistance of joint	EN 12317-1	MDV	600/400	N/50 mm	-20 %
Maximum tensile force	EN 12311-1	MDV	700/500	N/50 mm	-20 %
Elongation	EN 12311-1	MDV	40/45	%	-15 V.A.
Resistance to impact	EN 12691	MLV	1250	mm	
Resistance to static loading	EN 12730	MLV	15	Kg	
Resistance to tearing (nail shank)	EN 12310-1	MDV	200/200	N	-20 %
Dimensional stability	EN 1107-1	MLV	-0.3 / 0.1	%	≤
Flexibility at low temperature	EN 1109	MLV	-25	°C	≤
Flow resistance at elevated temperature	EN 1110	MLV	100	°C	≥
Water vapour transmission properties	EN 1931	μ = MDV or 20,000	20,000	-	

For specific application recommendations, please contact your regional Garland Technical Manager or the Garland Technical Department.

