

ARMOURPLAN SM180

PRODUCT INFORMATION

Armourplan SM is a polyester scrim reinforced membrane for mechanically fastened roofing systems on both flat and sloping roofs and is suitable for both new build and refurbishment installations

The membrane is mechanically fastened in the overlap using IKOfix Stress Plates and IKOfix Screws into the deck.

Overlaps are securely hot air welded

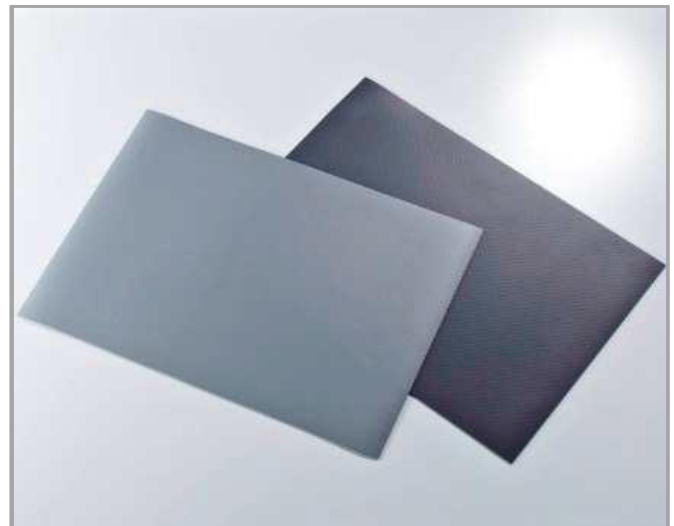
Armourplan SM can also be used for ballasted systems or alternatively in adhered systems bonded using Armourplan contact adhesive or Sprayfast PCA adhesive

Armourplan SM is also used as the upstand detailing membrane on all Armourplan SM/SG systems

Description	Armourplan SM180
Thickness	1.8mm
Widths	1.50m
Length	20m
Colour	Mid Grey (nearest RAL 7046) Slate Grey (nearest RAL 7015)
Material	PVC-P
Reinforcement	Woven Polyester Scrim
Product Code	42015018 – Mid Grey 43015018 – Slate Grey

FEATURES & BENEFITS

- Good UV resistance and durability
- Good mechanical properties and product performance
- Efficient and safe installation
- Secure seam welding quality
- Aesthetically pleasing finish
- Complete range of fixings and accessories available



SPECIFICATION

To complete the installation of Armourplan SM, the system includes a wide range of accessories, including detailing and walkway membrane, cover strips, preformed corners and outlets, standing seam profile, pre-coated metal sheet for forming edge details, IKOfix fastening systems and termination bars, insulation and vapour control layers, adhesives, cleaners, sealants and rooflights.

TYPICAL PROPERTIES

Characteristic properties	Unit	Method	SM180
Thickness +10%/- 5%	mm	EN 1849-2	1.80
Length +1%/- 0.5%	m	EN 1848-2	20.00
Width +1%/- 0.5%	m	EN 1848-2	1.5
Weight +10%/- 5%	g/m ²	EN 1849-2	2400
Tensile strength (MD/TD) +/- 20%	N/50 mm	EN 12311-2	1250
Elongation at break +/- 20%	%	EN 12311-2	25
Tear resistance	N	EN 12310-2	> 150
Peel strength of joints	N/50 mm	EN 12316-2	>200
Shear strength of joints	N	EN 12317-2	>1000
Hail resistance	m/s	EN 13583	30
Nail Tear	N	EN 12310-1	550
Impact Resistance	KPa	EN 12691	10
Static Load	Kg	EN 12730	20
Dimensional stability 6 hrs at 80°C	%	EN 1107-2	≤ 0.5
Flexibility at low temperatures	°C	EN 495-5	-30
External exposure to fire		BS EN 476-3	Ext F.AB
		EN 13501	T1 – Pass, T2 – Pass, T3 – Pass, T4 – Pass
Water tightness		EN 1928 method B	Pass
Root Resistance			NPD
Minimum Overlap (Adhered/Ballasted)	mm		60
Minimum Overlap (Mechanically Fastened)	mm		110
Minimum welding width (Automatic)	mm		>30
Minimum welding width (Hand Welder)	mm		>60
Welding temperature	°C		385 - 450
Recommended welding speed (Automatic Welder)	m/min		1.8
EC Declaration of conformity with standard			CE Marked

FURTHER PRODUCT INFORMATION

Full product literature, health & safety and technical sheets are available as downloads from our website www.ikopolymeric.com or on request by email polymeric.marketing@iko.com.