

**ARMOURPLAN SM120**

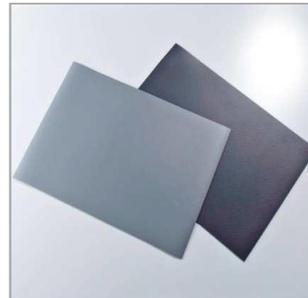
**PRODUCT INFORMATION**

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 Plates or Tubes and IKOfix deck appropriate fixings into the deck. Overlaps are securely hot air welded. Armourplan SM can also be used for ballasted systems. Armourplan SM is also used as the upstand detailing membrane on all Armourplan SM/SG systems.

**FEATURES & BENEFITS**

- BBA Certified 05/4287
- 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

Description	Armourplan SM120
<b>Thickness</b>	1.2mm
<b>Widths</b>	1.06m / 1.6m / 2.12m
<b>Length</b>	20m
<b>Colour</b>	Mid Grey (nearest RAL 7046) Slate Grey (nearest RAL 7015)
<b>Material</b>	PVC-P
<b>Reinforcement</b>	Woven Polyester Scrim
<b>Product Code</b>	420xxxxx – Mid Grey 430xxxxx – Slate Grey



**INDEPENDENT ACCREDITATION**

- BBA Agrément Certificate. 05/4287
- Euro Agrément ProcédureBATc ATG (No.2877)
- SGS/CTG (629)
- Czech Republic Protokol C 010\_011555
- Slovakia Co-operating Institute Certifikat 2601A/04/0520/1/c/c04
- Manufactured in accordance with BS EN ISO 14001, ISO 9001 and BES6001

**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 and sealants.

## TYPICAL PROPERTIES

Characteristic properties	Unit	Method	SM120
Thickness +10%/- 5%	mm	EN 1849-2	1.20
Length +1%/- 0.5%	m	EN 1848-2	20.00
Width +1%/- 0.5%	m	EN 1848-2	1.06/1.6/2.12
Weight +10%/- 5%	g/m <sup>2</sup>	EN 1849-2	1600
Tensile strength (MD/TD)	N/50mm	EN 12311-2	≥1000
Elongation at break	%	EN 12311-2	≥15
Tear resistance	N	EN 12310-2	≥ 150
Peel strength of joints	N/50mm	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	≥ 150
Impact Resistance	mm	EN 12691	≥ 1100 Soft ≥ 450 Hard
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 – NPD
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

## FURTHER PRODUCT INFORMATION

Full product literature, health & safety and technical sheets are available as downloads from our website:  
[www.ikogroup.com](http://www.ikogroup.com)