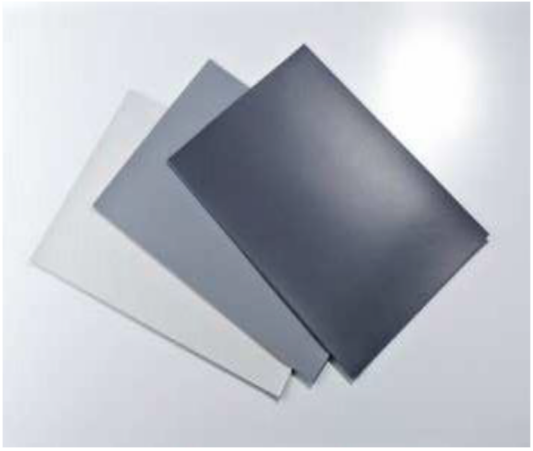
IKO Armourplan SM PVC Membrane

Technical Data Sheet – Section 14.00

PRODUCT INFORMATION

IKO Armourplan SM is a polyester scrim-reinforced membrane for mechanically fastened single ply roofing systems on both flat and sloping roofs.



USE

IKO Armouplan SM is a waterproofing membrane suitable for both new build and refurbishment installations. IKO Armourplan SM can be part of warm roof, uninsulated and ballasted system build ups. IKO Armourplan SM is also used as the upstand detailing membrane on IKO Armourplan SG systems.

The product must be applied by an IKO Registered/Approved Installer. All work must be undertaken in accordance with the requirements of the specific information provided with the issued IKO Specification document, or guidance documents where applicable.

As this product is utilised within an Approved Contractor network and guided by an IKO Specification document, where omission or differing information exists the IKO Specification document will take precedence.

OPTIONS

Product	Roll Size	Product Code	Colour
IKO Armourplan SM 120	20m x 1.06m x 1.2mm	42010612	Mid Grey
IKO Armourplan SM 120	20m x 2.12m x 1.2mm	42021212	Mid Grey
IKO Armourplan SM 120	20m x 1.60m x 1.2mm	42016012	Mid Grey
IKO Armourplan SM 120	20m x 2.12m x 1.2mm	43021212	Slate Grey
IKO Armourplan SM 120	20m x 1.06m x 1.2mm	43010612	Slate Grey
IKO Armourplan SM 120	20m x 1.60m x 1.2mm	43016012	Slate Grey
IKO Armourplan SM 120	20m x 1.06m x 1.2mm	41010612	Light Grey
IKO Armourplan SM 120	20m x 2.12m x 1.2mm	41021212	Light Grey
IKO Armourplan SM 120	20m x 1.60m x 1.2mm	41016012	Light Grey
IKO Armourplan SM 150	20m x 1.06m x 1.5mm	42010615	Mid Grey
IKO Armourplan SM 150	20m x 1.60m x 1.5mm	42016015	Mid Grey

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Product	Roll Size	Product Code	Colour
IKO Armourplan SM 150	20m x 2.12m x 1.5mm	42021215	Mid Grey
IKO Armourplan SM 150	20m x 1.06m x 1.5mm	43010615	Slate Grey
IKO Armourplan SM 150	20m x 1.60m x 1.5mm	43016015	Slate Grey
IKO Armourplan SM 150	20m x 2.12m x 1.5mm	43021215	Slate Grey
IKO Armourplan SM 150	20m x 1.06m x 1.5mm	41010615	Light Grey
IKO Armourplan SM 150	20m x 1.60m x 1.5mm	41016015	Light Grey
IKO Armourplan SM 150	20m x 2.12m x 1.5mm	41021215	Light Grey
IKO Armourplan SM 180	15m x 1.06m x 1.8mm	42010618	Mid Grey
IKO Armourplan SM 180	15m x 1.60m x 1.8mm	42016018	Mid Grey
IKO Armourplan SM 180	15m x 2.12m x 1.8mm	42021218	Mid Grey
IKO Armourplan SM 180	15m x 1.06m x 1.8mm	43010618	Slate Grey
IKO Armourplan SM 180	15m x 1.60m x 1.8mm	43016018	Slate Grey
IKO Armourplan SM 180	15m x 2.12m x 1.8mm	43021218	Slate Grey
IKO Armourplan SM 180	15m x 1.06m x 1.8mm	41010618	Light Grey
IKO Armourplan SM 180	15m x 1.60m x 1.8mm	41016018	Light Grey
IKO Armourplan SM 180	15m x 2.12m x 1.8mm	41021218	Light Grey

COMPOSITION

Material:	PVC-P		
Reinforcement:	Polyester Scrim		
Form:	Roll		
Weight (1060mm roll):	1.2mm - 36kg	1.5mm - 43.5kg	1.8mm - 38.2kg
Weight (1600mm roll):	1.2mm - 54.4kg	1.5mm - 65.6kg	1.8mm - 57.6kg
Weight (2120mm roll):	1.2mm - 72kg	1.5mm - 86.8kg	1.8mm - 76.4kg
Thickness:	1.2mm/1.5mm/1.8mm		
Colour:	Mid Grey (RAL 7046*)/Slate Grey (RAL7015*)/Light Grey (RAL7047*)		

*nearest RAL

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INSTALLATION

Carefully unroll the IKO Armourplan SM membrane over the previously prepared substrate. Ensure that the membrane runs perpendicular to structural metal decks.

Install the IKOfix fasteners, using an appropriate installation tool, 30mm from the outside edge. Fasteners must be installed at the fixing centres provided in the wind load calculation within the IKO specification.

Unroll the next roll of the membrane and ensure that the side overlaps the previously installed sheet by a minimum 120mm. Hot air weld the side laps with an automatic welder or handheld hot air gun and allow to cool completely. Mechanically check the integrity of the cooled weld by running a seam probe tool (with rounded edges) along the seam, applying pressure into the seam.

In corners and other areas where additional fastening is required in accordance with the wind load calculation, install IKOfix fasteners through the roof sheet and cover with a 200mm wide strip of IKO Armourplan SM. Hot air weld both side laps and end laps.

At upstand abutments and at all roof penetrations, secure the IKO Armourplan SM membrane with IKOfix toothed flat bars. Cover 10mm gap in the IKOfix toothed flat bar with a 50mm x 50mm piece of IKO Armourplan SM and weld to the roof sheet.

Apply waterproofing to the IKOfix toothed flat bar with the upstand flashing hot air welded to the roof sheet.

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

NB: This is a guide only – please refer to Armourplan Installation Guide for Contractor notes.

PRODUCT ACCREDITATIONS

BBA APPROVAL INSPECTION TESTING CERTIFICATION
CERTIFICATE 05/4287

UK CA | CE

This product carries a Declaration of Performance Certificate, Agrement Certificate 05/4287, and is UK conformity Assessed.

Copies of the relevant certification may be downloaded from the IKO website https://ikogroup.co.uk/resource-centre/

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MAINTENANCE & REPAIR

Maintenance must be undertaken in accordance with the terms of the guarantee. The waterproofing must be protected from any follow-on trades or other works that may affect the waterproofing. Once completed, access will be required for future inspections and maintenance. Maintenance of drainage outlets, plant items and services etc. will be required to ensure the long-term performance of the waterproofing system.

The client is to ensure safe access is provided to allow maintenance. Unauthorised access should be prevented from all parties not associated with the installation of the waterproofing, inspection or maintenance. Designated walkways should be provided for maintenance and means of escape.

OTHER RELEVENT DOCUMENTATION

Where applicable, Material Safety Data Sheets (MSDS), Declaration of Performances (DoPs), and Third-Party Accreditations are available to view and download from the IKO website Resource Centre:
https://ikogroup.co.uk/resource-centre/

PRODUCT SUPPORT

Should you have any queries in relation to this product please contact one of the relevant teams below:

Technical technical.ab@iko.com
- For Reinforced Bitumen Membranes, IKOpro and Flexia Liquid Applied Waterproofing, Pitched Roofing, IKO Hyload Structural Waterproofing

technical.ma@iko.com
- For Mastic Asphalt

technical.cc@iko.com
- For Single Ply and Permatec Hot Melt

Sales sales.uk@iko.com
Marketing getintouch.uk@iko.com

COMPANY ACCREDITATIONS

IKO PLC, a roofing, waterproofing, and insulation company, holds various accreditations that demonstrate its commitment to quality, safety, and environmental responsibility. These include ISO certifications for quality management and occupational health and safety, British Board of Agrément (BBA) accreditations for specific products and systems, and Factory Mutual (FM) approval for certain roofing systems.

All our manufacturing plants have BS EN ISO 9001, BS EN ISO 14001, BS EN ISO 45001, BES 6001, and PAS 2080 accreditation, meaning we match the quality and sustainability requirements and use responsibly sourced raw materials in our production. We also re-use by-products from manufacture, wrap products in minimal packaging, and we employ a streamlined transportation network.

IKO is also a leading member of all relevant trade associations such as NFRC, BFRA, SPRA, LRWA, MAC, RSTA, BJA and LCRIG having technical experts within the technical and standards committees to help us get informed first-hand about recent updates on technical requirements for the design and installation of roofing, waterproofing, road and bridge maintenance industry products.

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DISCLAIMER

Whilst every precaution is taken to ensure that the information given in this literature is correct and up-to-date it is not intended to form part of any contract or give rise to any collateral liability, which is hereby specifically excluded.

IKO reserves the right to amend and/or withdraw this document without notice.

Intending purchasers of our materials should therefore verify with the company whether any changes in our specification, application details, withdrawals or otherwise have taken place since this literature was published.

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