

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 Plates or Tubes and IKOfix deck appropriate fixings into the deck.

Overlaps are securely hot air welded

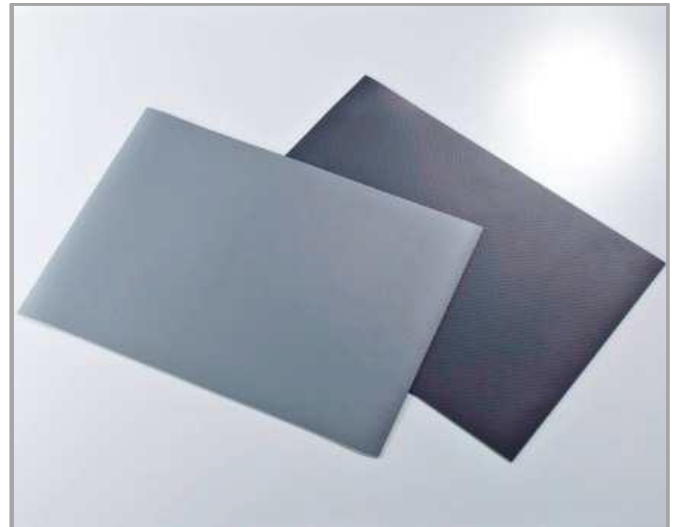
Armourplan SM can also be used for ballasted systems.

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

FEATURES & BENEFITS

- 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 SM180 |
|---------------|--|
| Thickness | 1.8mm |
| Widths | 1.06m / 1.6m / 2.12m |
| Length | 20m |
| Colour | Mid Grey (nearest RAL 7046) Slate Grey (nearest RAL 7015) |
| Material | PVC-P |
| Reinforcement | Woven Polyester Scrim |
| Product Code | 420xxxxx – Mid Grey 430xxxxx – Slate Grey |



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 | 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 | 1.06/1.6/2.12 |
| 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:
ikogroup.com