

## Spectraplan SG

### Product Details

<b>Description</b>	Fleece-Backed Single Ply Membrane
<b>Thickness</b>	1.2mm
<b>Width</b>	2.12m
<b>Length</b>	20m
<b>Colour</b>	Light Grey (nearest RAL 7035)
<b>Material</b>	TPE (Thermoplastic Elastomer)
<b>Reinforcement</b>	Glass Tissue
<b>Fleece Backing</b>	120gsm Non-woven Polyester
<b>Product Code</b>	54021212 – Light Grey



## Introduction

- Glass tissue reinforced polyester fleece-backed TPE single ply roofing membrane
- Suitable for use in a wide range of roofing applications on both flat and sloping roofs
- Forms a sleek skin on many types of roof applications
- Can be adhered onto most common substrates using Spectrabond Low Foaming PU adhesive or IKOpro Sprayfast FMA adhesive
- Suitable for both new build and refurbishment installations and for specialist applications such as simulated metal roofs

### Features & Benefits

- BBA Certified 05/4203
- Excellent UV resistance and durability
- No plasticisers or chlorine
- Excellent mechanical properties and product performance
- Efficient and safe installation
- Secure seam welding quality
- Aesthetically pleasing finish
- Complete range of fixings and accessories available

## System Complements

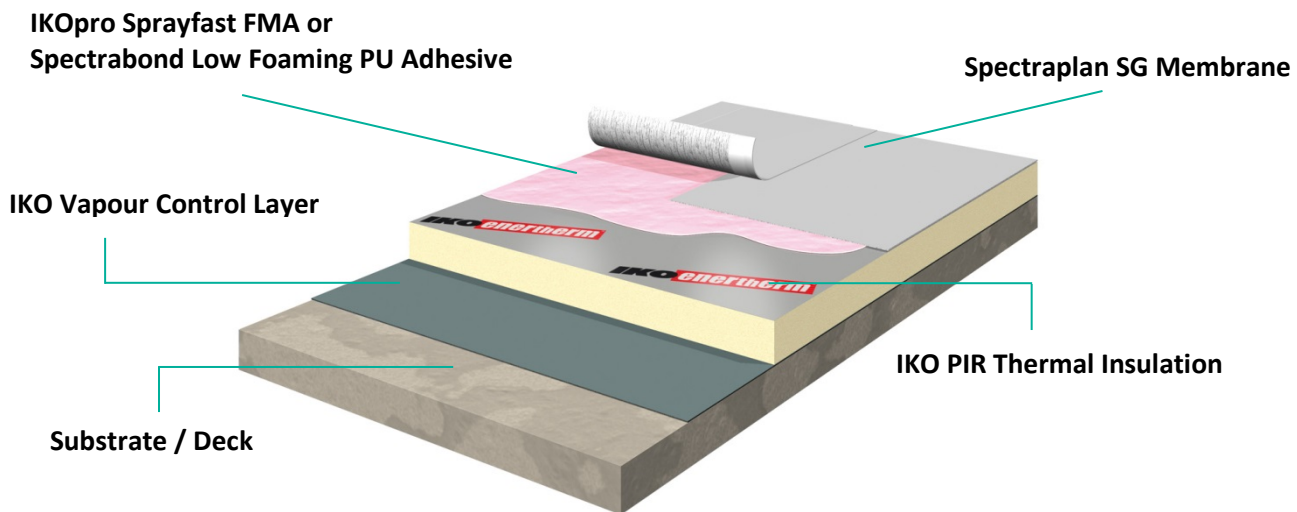
To complete the installation of Spectraplan SG, the system includes a wide range of accessories, including detailing membrane, cover strips, preformed corners and outlets, standing seam profile, pre-coated metal sheet for forming edge details, IKOfix fastening systems and termination bars, insulation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

## Certification

- BBA Agrément Certificate No. 05/4203
- CE Marked
- Manufactured in accordance with BS EN ISO 14001



## Application



1. Before use thoroughly stir the Spectrabond Low Foaming PU Adhesive. Replace the container lid when work is interrupted. If required warm the Spectrabond PU Adhesive container in warm water.
2. Unroll the Spectraplan SG over the prepared substrate and fold back approximately half its length.
3. Apply a coat of Spectrabond Low Foaming PU adhesive using a roller or apply Sprayfast FMA adhesive to the substrate surface, priming only the area of roof where the membrane will be laid. *Note: The PU adhesive must be given time to activate prior to applying the membrane. On activation i.e. the point at which the adhesive will afford the highest bond strength, the surface of the adhesive starts to change from pink/red to opaque.*
4. Carefully roll the Spectraplan SG into the primed surface.
5. Fold back other half of the roll of Spectraplan SG and repeat the procedure.
6. Roll with water filled roller or soft bristled broom to ensure intimate contact between the two surfaces.
7. Unroll the next roll of Spectraplan SG, ensuring the end laps are staggered and the side overlaps the previously installed sheet by 60mm.
8. Repeat the adhering process.
9. Fully hot air weld the 60mm side lap and allow to cool completely.
10. Mechanically check the integrity of the cooled weld by running a seam probe or 4mm wide screwdriver (with rounded edges) along the seam applying pressure into the seam.

11. Before use thoroughly stir the Spectrabond Low Foaming PU Adhesive. Replace the container lid when work is interrupted. If required warm the Spectrabond PU Adhesive container in warm water.
12. Unroll the Spectraplan SG over the prepared substrate and fold back approximately half its length.
13. Apply a coat of Spectrabond Low Foaming PU adhesive using a roller or apply Sprayfast FMA adhesive to the substrate surface, priming only the area of roof where the membrane will be laid. *Note: The PU adhesive must be given time to activate prior to applying the membrane. On activation i.e. the point at which the adhesive will afford the highest bond strength, the surface of the adhesive starts to change from pink/red to opaque.*
14. Carefully roll the Spectraplan SG into the primed surface.
15. Fold back other half of the roll of Spectraplan SG and repeat the procedure.
16. Roll with water filled roller or soft bristled broom to ensure intimate contact between the two surfaces.
17. Unroll the next roll of Spectraplan SG, ensuring the end laps are staggered and the side overlaps the previously installed sheet by 60mm.
18. Repeat the adhering process.
19. Fully hot air weld the 60mm side lap and allow to cool completely.
20. Mechanically check the integrity of the cooled weld by running a seam probe or 4mm wide screwdriver (with rounded edges) along the seam applying pressure into the seam.

## **Further Product Information**

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Full product literature, health & safety and technical sheets are available as downloads from our website [www.ikopolymeric.com](http://www.ikopolymeric.com) or on request by email [polymeric.marketing@iko.com](mailto:polymeric.marketing@iko.com).

# Typical Properties

Characteristic properties	Unit	Method	IKO Spectraplan SG120
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	2.12
Weight +10%/- 5%	g/m <sup>2</sup>	EN 1849-2	1570
Tensile strength (MD/TD) +/- 20%	N/50 mm	EN 12311-2	800
Elongation at break +/- 20%	%	EN 12311-2	150
Tear resistance	N	EN 12310-2	> 120
Peel strength of joints	N/50 mm	EN 12316-2	>300
Shear strength of joints	N	EN 12317-2	>800
Hail resistance	m/s	EN 13583	NPD
Nail Tear	N	EN 12310-1	500
Impact Resistance	KPa	EN 12691	NPD
Static Load	Kg	EN 12730	NPD
Dimensional stability 6 hrs at 80°C	%	EN 1107-2	≤ 1.0
Flexibility at low temperatures	°C	EN 495-5	-35
External exposure to fire		BS EN 476-3	Ext F.AC
		EN 13501	T1 – NPD T2 – NPD T3 – NPD T4 – Pass
Water tightness		EN 1928 method B	Pass
Water Vapour Permeability	μ		100,000
Root Resistance			Pass
Minimum Overlap	mm		60
Minimum welding width (Automatic)	mm		>30
Minimum welding width (Hand Welder)	mm		>60
Welding temperature	°C		200 - 600
Recommended welding speed (Automatic Welder)	m/min		2.0 – 7.0
EC Declaration of conformity with standard			CE Marked



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