IKO SPECTRAPLAN
TPE MEMBRANE

The only UK-manufactured TPE membrane available on the market, IKO Spectraplan offers unique properties that enable high-quality installations that are durable, flexible and offer flame-free applications.

The unique properties of IKO Spectraplan ensure high-quality installations with minimal cleaning and preparation of laps before welding. Its high polymer content enables welding without the need for harsh cleaners.

With a high polymer content, IKO Spectraplan integrates with bitumen and other IKO waterproofing layers. The membranes boast excellent tensile strength, elasticity and resistance to aging and wind uplift, with a wide welding window of 200°C to 600°C ensuring reliable overlaps.

The membranes are highly versatile, with three variations available for different applications:

IKO SPECTRAPLAN SM
Polyester reinforced membrane for mechanically fixed systems.

IKO SPECTRAPLAN SG
Fleece backed membrane for adhered applications.

IKO SPECTRAPLAN D
Homogenous membrane for use on complex detailing.

IKO SPECTRAPLAN

USPS

SUSTAINABILITY
- Free from plasticisers, (H)CFC's, halogens (such as chlorine, fluorine, bromine), heavy metals and softeners.
- No solvent preparation required
- White in colour to enhance solar reflectivity and reduce the urban heat island effect
- The only TPE membrane manufactured in the UK delivering lower transport emissions
- Manufacturing facilities are ISO 9001, 14001 & BES 6001 accredited, demonstrating responsible sourcing and operations

WORKMANSHIP
- Installed by experienced IKO-trained and registered contractors
- Dedicated IKO technical engineers monitor every installation under our single point guarantee
- Quick and easy to install due to exceptional mechanical properties
- Elasticity of TPE accommodates substructure movement
- Secure seam welding quality and sleek finish
- Compatible with existing bitumen membranes, without the need for a separation layer
- IKO guarantees cover workmanship for up to 25 years

DURABILITY
- BBA Approved (Certificate No 05/4203)
- High UV resistance
- Manufactured using cutting edge technology
- Exceptional lifetime product performance
- Flexible design for ultimate versatility
- Fire retardant and tested – Broof(t4) classification when used as part of a tested system
- Easy to clean and maintain
- Full range of compatible accessories available
- IKO guarantees cover installed materials for up to 25 years

FURTHER AND FINER DETAILS

	Single Ply Membrane Comparison			
	IKO Spectraplan TPE	**PVC**	**TPO**	**EPDM**
Bitumen compatibility	Yes	No	Yes	No
Colour options	White only	Wide range	Limited	Limited
Solvent preparation required	No	Yes	Yes	Yes
Contains chlorine/ plasticisers	No	Yes	No	No
UK manufactured	Yes	Yes	No	No
Ease of installation	Simple	Simple	Sensitive to site conditions	Complex detailing
Welding window	200°c - 600°c	380°c ± 20°c	280°c ± 20°c	N/A

IKO SPECTRAPLAN

ADVANCED REFLECTIVE ROOFING FOR COOLER, MORE SUSTAINABLE BUILDINGS

IKO Spectraplan is a white-coloured roofing solution designed with a reflective pigment that effectively reflects sunlight and reduces heat retention. A white roof can stay up to 30°C cooler than a grey roof by reflecting 80% of sunlight compared to only 20%[1].

Due to its highly-reflective properties, IKO Spectraplan has achieved 91 on the Solar Reflectance Index (SRI). SRI is the measure of solar reflectance and thermal emissivity and determines a material's ability to reflect solar heat, with scores ranging from 0-100[2].

Using materials with higher SRI values offers several benefits, including cooler indoor temperatures and improved occupant comfort, lower cooling energy demands and emissions, a decrease in the urban heat island effect and extended roof lifespan through reduced heat-related wear[3].

1 https://heatisland.lbl.gov/coolscience/cool-roofs#Note3
2 https://cleanenergybusinesscouncil.com/solar-energy-glossary/solar-reflectance-index-sri/
3 James, Patrick and Manfren, Massimiliano (2021) Future (p)roof: building resilience of the UK's roofs for a changing climate. In, Building resilience of roofing technologies in a changing climate. Southampton. University of Southampton. (doi:10.5258/SOTON/P1079)

MADE IN THE U.K. SINCE 1883

For further guidance, please contact IKO's Technical Services team on 01257 255771 or polymeric.technical.uk@iko.com