



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.

With reduced cleaning and minimal preparation of laps required before welding, the high polymer content absorbs construction dust particles into the membrane during the hot air welding process. The membranes can be welded even when exposed to dirt, dust or moisture, without the need for aggressive solvent cleaners or lengthy preparation.

With a high polymer content, IKO Spectraplan integrates seamlessly 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.

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

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 0-100².

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 wear³.



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)



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