

# Sikaplan® -24.6 V-Tunnel

## High Polymer Waterproofing Membrane

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**Description** Sikaplan-24.6 V-Tunnel is a multi layer calendered high polymer waterproofing membrane.

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**Uses** Sikaplan-24.6 V-Tunnel is designed to waterproof tunnels and civil constructions. The membrane has been successfully used worldwide for the waterproofing of driven and cut and cover method tunnels.

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**Advantages** *Sikaplan-24.6 V-Tunnel has excellent resistance to:*

- Ageing
- Roots
- Lime wash
- Microorganisms
- Thermal ageing

*Further properties are:*

- Excellent workability due to high flexibility
- High tear resistance
- Excellent weldability
- High mechanical resistance
- Recyclable

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### Technical Data

**Thickness**  
(Nominal thickness) 3.0 mm

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**Colour**

Top layer (signal layer):	Yellow	0.6 mm
Bottom layer:	Black	2.4 mm

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**Dimensions**

Width of rolls (standard):	2.20 m
Length of rolls:	as required
Weight:	4.0 kg/m <sup>2</sup>

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**Storage** Store in dry and cool conditions on even substrate.

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**Important** Sikaplan 24.6 V-Tunnel is non-reinforced, not UV resistant and not resistant against bitumina.

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The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions within their shelflife. In practice, the differences in materials, substrates and actual site conditions are such, that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent issue of the Technical Data Sheet for the product concerned, copies of which will be supplied on request or can be accessed in the Internet under „www.sika.ch/bauchemie“.

## Properties tested according to the relevant Swiss SIA V 280 resp. according to SIA 271 for waterproofing against ground water

Test	Requirement	Result
<b>Elongation at break</b>	Longitudinal > 200% Transversal > 200%	$\geq 300\% \pm 20\%$ $\geq 300\% \pm 20\%$
<b>Cold bend test</b>	No cracks at -10°C	passed
<b>Dimensional stability under heat</b>	6 h/+80°C dimensional change Longitudinal < 2.0% Transversal < 2.0%	1.8% 0.5%
<b>Slit pressure resistance</b>	1 hr./5 bar (0,5 N/mm <sup>2</sup> ) water tight	passed
<b>Thermal ageing</b>	70 d/ +70°C: dimensional change < 2% Change of elongation at break: Longitudinal < 30% Transversal < 30%	0.77% 1% 4%
<b>Resistance to roots</b>	No root penetration	passed
<b>Combustibility</b>	Combustibility IV Smoke 2 or V.1 / B1 Austria	passed passed
<b>Behaviour in warm water</b>	Absorption after 8 months immersed in water < 4% Afterwards cold bending test at -20°C: No cracking Change of elongation at break $\leq 30\%$	3.70% passed passed
<b>Compressive strength</b>	48 hours at 7 N/mm <sup>2</sup> water tight	passed
<b>Drop hammer test (Perforation resistance)</b>	Leakproof at a height of fall of > 750 mm Weight of drop hammer 500 g	passed 2000 mm
<b>Seam strength</b>	Break alongside welding no peeling or delaminating	passed passed

### Other membranes in the tunnelling/ civil engineering range:

- Sikaplan-14.6 V-Tunnel
- Sikaplan-14.6 III-Tunnel
- Sikaplan-20/-30/-40 Schutz DIA
- Sikaplan-20 PECO
- Sikaplan-30 PECO
- Sikaplan-20/-30 PECO G (reinforced)
- Sikaplan-20/-30 PECO Schutz DIA

For detailed information please contact the Sika advisers and consult the corresponding product information and the price list.



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