

Sikaplan® -14.6 V-Tunnel

High Polymer Waterproofing Membrane

Description Sikaplan-14.6 V-Tunnel is a multi layer calendered high polymer waterproofing membrane.

Uses Sikaplan-14.6 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.

Advantages *Sikaplan-14.6 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

Technical Data

Thickness 2.0 mm
(Nominal thickness)

Colour	Top layer (signal layer):	Yellow	0.6 mm
	Bottom layer:	Black	1.4 mm

Dimensions	Width of rolls (standard):	2.20 m
	Length of rolls:	as required
	Weight:	2.7 kg/m ²

Storage Store in dry and cool conditions on even substrate.

Important Sikaplan 14.6 V-Tunnel is non-reinforced, not UV resistant and not resistant against bitumina.



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

Test	Requirement	Result
Elongation at break	Longitudinal > 200% Transversal > 200%	$\geq 300\% \pm 20\%$ $\geq 300\% \pm 20\%$
Cold bend test	No cracks at - 10°C	passed
Dimensional stability under heat	6 h/+80°C dimensional change Longitudinal < 2.0% Transversal < 2.0%	1.8% 0.5%
Slit pressure resistance	1 hr./5 bar (0,5 N/mm ²) water tight	passed
Thermal ageing	70 d/+70°C: dimensional change < 2% Change of elongation at break: Longitudinal < 30% Transversal < 30%	0.9% 5% 2%
Resistance to roots	No root penetration	passed
Combustibility	Combustibility IV Smoke 2 or V.1 / B1 Austria	passed passed
Behaviour in warm water	Absorption after 8 months immersed in water < 4% Afterwards cold bending test at -20°C: No cracking Change of elongation at break $\leq 30\%$	2.8% passed passed
Compressive strength	48 hours at 7 N/mm ² water tight	passed
Drop hammer test (Perforation resistance)	Leakproof at a height of fall > 750 mm Weight of drop hammer 500 g	1250 mm
Seam strength	Break alongside welding no peeling or delaminating	passed passed

Other membranes in the tunnelling/ civil engineering range:

- Sikaplan-24.6 V-Tunnel
- Sikaplan-14.6 III-Tunnel
- Sikaplan-20/-30/-40 Schutz DIA
- 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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