

Sikaplan® -14.6 III-Tunnel

High polymer Waterproofing Membrane

Description Sikaplan-14.6 III-Tunnel is a multi layer calendared high polymer waterproofing membrane.

Uses Sikaplan-14.6 III-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 III-Tunnel has excellent resistance to:*

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

Further properties are:

- 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
	Total thickness:		2.0 mm

Dimensions	Width of rolls :	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 III-Tunnel is not UV resistant and not resistant against bitumina.



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Properties tested according to the relevant Swiss SIA V280

Test	Requirement	Result
Elongation at break	Longitudinal > 200 % Transversal > 200 %	> 300 % > 250 %
Cold bend test	No cracks at - 20 °C	passed
Dimensional stability under heat	6 h/ + 80 °C dimensional change Longitudinal < 2.0 % Transversal < 2.0 %	< 1.0 % < 0.4 %
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 %	< 1.0 % < 1.0 % < 1.0 %
Resistance to roots	No root penetration	passed
Combustibility	Combustibility IV	passed
Behaviour in water	Absorption after 8 months immersed in water < 6 % Afterwards cold bending test at - 20 °C: No cracking	< 4.0 % passed
Compressive strength	48 hours at 7 N/mm ² water tight	passed
Drop hammer test (Perforation resistance)	Leakproof at a height of fall of 750 mm Weight of drop hammer 500 g	> 800 mm
Seam strength	Break alongside welding no peeling or delaminating	passed

Other membranes in the tunnelling/ civil engineering range:

- Sikaplan-24.6 V-Tunnel
- Sikaplan-20 PECO
- Sikaplan-30 PECO
- Sikaplan-15 B
- Sikaplan-20 B



Sika Schweiz AG
 P.O. Box 1300
 CH-8048 Zürich
 Phone +41 1 436 40 40 Telefax +41 1 436 45 55
 E-Mail: ch-export@ch.sika.com



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