



# URDIN T SL



# SINTEC

*your waterproofing partner*

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## DESCRIPTION

URDIN T SL is a non-reinforced flexible PVC-P membrane. Not compatible with asphalt. Non UV resistant. Manufactured under EN 13967 and EN 13491.

## USE

URDIN T SL is suitable for waterproofing of tunnels and buried galleries, cut and cover tunnels, underground works, coverings of buried structures, underground car parks.

## PROPERTIES

- Membrane made exclusively from virgin resins.
- Signal layer, in order to visually detect any damage during the installation.
- Resistant to blowing, putrefaction, microorganisms and ageing.
- High level of waterproofing even under permanent deformation.
- Stable in aqueous solutions with PH 12-13.
- Highly puncture resistant.
- Root resistant according to EN 14416.
- Resistant to UV while installation is being performed.
- Excellent mechanical properties.
- Easily welded using hot air, even several years after installation.
- Can be recycled.
- Material can be manufactured in different lengths, according to customer's needs.

## INSTALLATION

- The installation of URDIN T SL membranes must be performed by experienced and qualified personnel. Handling and extension of the material can be done at temperatures over 0°C, but fixing should be done at a minimum temperature of +10°C.
- Surfaces must be clean and dry and free from sharp obtrusions. The membrane can be used on bitumen, asphalt, oil and tar surfaces and polyurethane and polystyrene isolation by using a suitable geotextile as a separating layer.
- Membrane joints should be made using a hot air welder and should be checked by running a flat headed punch along the whole of the seam. In case of double welding, checking will be made with air pressure.
- Welding capability and quality are influenced by the environmental conditions (temperature, humidity), welding conditions (temperature, speed, pressure, previous cleaning) and by the Surface conditions of the membrane (cleanliness, humidity). Therefore, welding machine will be adjusted in order to get a correct weld.

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## PACKAGING AND STORAGE

Colour	Yellow/Black( $\Delta e=5$ )
Dimensions	2,1 x 20m (42 sqm /roll) (*)
Rollos / pallet	According to customers needs
Storage	Horizontally and in parallel (never crossed)

Supplied in rolls on cardboard tubing. Store in the original packaging in a dry and cool place. (\*) This material can be manufactured in the length needed by the customer in each project.



## URDIN T SL

CHARACTERISTICS	NORMS	UNITS	VALUES			
Thickness	EN 1849-2	mm	1,5 ( $\pm 5\%$ )	2,0 ( $\pm 5\%$ )	2,5 ( $\pm 5\%$ )	3,0 ( $\pm 5\%$ )
Tensile Strength	EN 527	N/mm <sup>2</sup>	$\geq 15$			
Elongation	EN 527	%	$\geq 300$			
Tear Strength	EN 12310-1	N	$\geq 120$	$\geq 150$	$\geq 190$	$\geq 225$
Resistance to Static perforation	EN 12236	kN	1,7 ( $\pm 10\%$ )	2,4 ( $\pm 10\%$ )	2,97 ( $\pm 10\%$ )	3,6 ( $\pm 10\%$ )
Resistance to impact	EN 12691-A	mm	$\geq 450$	$\geq 750$	$\geq 900$	$\geq 1100$
Resistance to static load	EN 12730 (B)	Kg	$>20$			
Joint Tear Strength (LxT)	EN 12317-2	N/ 50mm	$\geq 750$	$\geq 1000$	$\geq 1250$	$\geq 1500$
Foldability at low temperatures	EN 495-5	°C	$\leq -25$			
Resistance to hydrostatic pressure (2KPa and 60KPa)	EN 1928 - B	-	Waterproof			
Liquid permeability (6h at 0,5MPa)	EN 14150	m <sup>3</sup> /m <sup>2</sup> /día	$<10^{-6}$			
Durability at 2KPa and 60KPa After thermal ageing After immersion in chemical products	EN 1296	-	Waterproof			
	EN 1847	-	Waterproof			
Resistance to oxidation (90d/85°C)	EN 14575	%	$\leq 25$			
Root Resistance	EN 14416	-	No penetration			
Reaction to fire	EN 13501-1	-	E			