



## TexsaSynthetics

- TEXSA SYNTHETICS is a Spanish company belonging to the TEXSA group, specialised in synthetic and geosynthetic membranes for the waterproofing industry.
- TEXSA SYNTHETICS is dedicated to the constant search for new products and systems, to provide comprehensive solutions according to project requirements, meeting the demands of this important sector.
- TEXSA SYNTHETICS has a wide range of products and its customers can count on personal expert technical and customer service.
- TEXSA SYNTHETICS counts on more than 50 years experience of the TEXSA group, carrying out constant internal and external quality controls.

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### REFERENCE JOBS

- "El Perdón" Tunnel (Navarra), Vinitex SL 1.5 - 62,000 m<sup>2</sup> (2005)
- "El Cubillo" Tunnel (Cuenca), Vinitex TR 1.5 - 42,000 m<sup>2</sup> (2007)
- Tunnel in Contreras (Comunidad Valenciana) Vinitex TR 1.5 - 40,000 m<sup>2</sup> (2007-2008)
- Meirama Tunnel (Galicia), Vinitex TR 1.5 - 135,000 m<sup>2</sup> (2007-2008)
- Tunnel in Silleda (Pontevedra), Vinitex TR 1.5 - 60,000 m<sup>2</sup> (2008)
- Tunnel in Cerceda (A Coruña), Vinitex TR 1.5 - 60,000 m<sup>2</sup> (2008)
- Tunnel in Tarancón (Cuenca), Vinitex TR 1.5 - 40,000 m<sup>2</sup> (2008)
- Basauri Underground Tunnel (Vizcaya), Vinitex TR 2.0 - 10,000 m<sup>2</sup> (2009)
- Tunnel in Madeira, Vinitex SL 2.0 - 80,000 m<sup>2</sup> (2008-2009)
- New Delhi Underground Tunnel (Delhi Metro Rail Corporation), Vinitex SL 2.0 - 35,000 m<sup>2</sup> (2008-2009)



# Tunnels

Waterproofing tunnels

TexsaSynthetics 

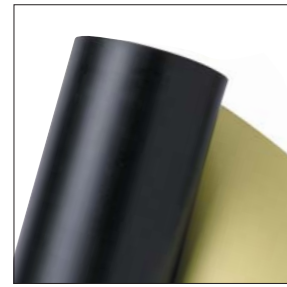
Vinitex



Waterproofing plays an important role in the proper functioning of a tunnel. The person who installs it faces a specific and complex system that requires a suitable, flexible material which can easily adapt to the ground. All this is necessary in order to avoid leaks which affect not only the life of the concrete, but can also cause the formation of ice in the structure or on the road surface itself.

Texsa Synthetics is a specialist in synthetic membranes for waterproofing and produces the VINITEX SL and VINITEX TR membranes. They are made of flexible PVC which is specific for tunnel- waterproofing and underground works. They are designed to provide the best quality and guarantee of durability.

- Excellent mechanical proprieties.
- Excellent flexibility under low temperatures.
- High watertightness level under permanent deformation.
- High puncturing resistance.
- Excellent ground adaptability.
- Resistant to microorganisms.
- Resistant to changes of temperature.
- Perfectly weldable with hot air.



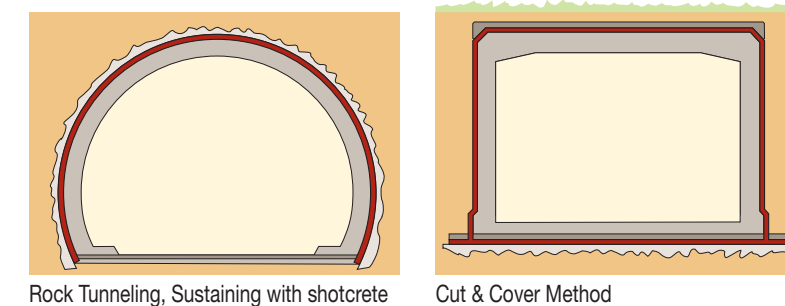
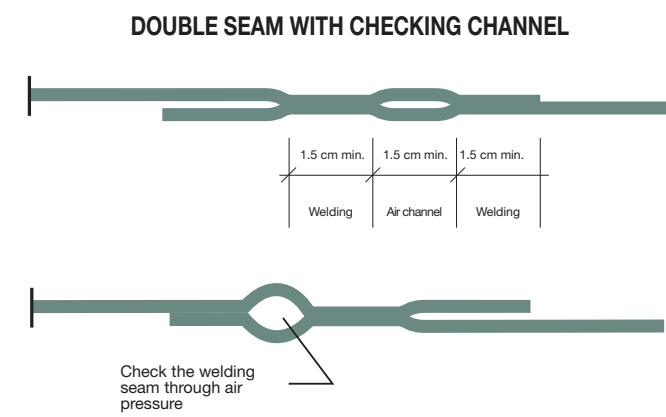
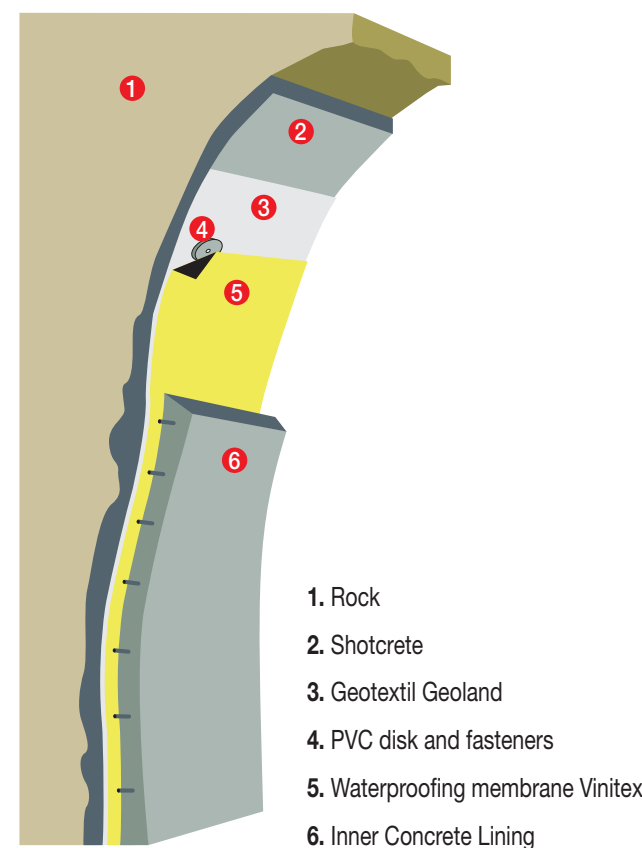
## Vinitex SL

VINITEX SL is a flexible, non-reinforced sheet. Its yellow-black SIGNAL LAYER design makes easier the detection of the potential casual flaws.

## Vinitex TR

VINITEX TR is a flexible, non-reinforced sheet. It is also translucent giving the possibility to see the pre-waterproofing layer.

	Vinitex SL	Vinitex TR
Reinforcement	Non-reinforced	Non-reinforced
Thickness	1.5 and 2.0 mm	1.5 and 2.0 mm
Size	2.05 x As per order	
Colour	Yellow/Black	Translucent



Vinitex

CHARACTERISTICS	Standard	VINITEX TR	VINITEX SL
Tensile strength – to breaking	ISO R 527	≥ 15 MPa	≥ 15 MPa
Tensile strength Elongation (L x T)	ISO R 527	≥ 350 N/50 mm	≥ 300 N/50 mm
Static puncturing	EN ISO 12236	≥ 0.35 kN	≥ 0.35 kN
Dimensional stability	EN 1107-2	≤ 2%	≤ 2%
Foldability under low temperature	EN 495-5	- 25 °C	- 25 °C
Water vapour transmission properties	EN 1931	20,000	20,000
Watertightness	UNE EN 1928	PASS	PASS