

# TIKIPLAN SL 3017

## Synthetic PVC Signal Layer Waterproofing Membrane

### DESCRIPTION

**TIKIPLAN SL 3017** is a synthetic flexible non-reinforced homogeneous plasticized PVC membrane with Signal Layer obtained by twin coloured co-extrusion method.

The twin colour (Signal Layer with Dark Base) of membrane acts as a signal layer allowing for easy detection of eventual damages during installation.

### ADVANTAGES

- Superior mechanical strength - resists various stresses.
- Signal layer - eases visual inspection of on-site damages.
- Excellent weld ability.
- Good tear and puncture resistance.
- Resistance to bursting under high water pressure
- Double welded laps - allows for pressure testing of joints.
- Good compatibility for welding with PVC water stops during compartmentalisation of structures.
- Loose laid - act independently of structural movement.
- High elongation and flexibility - eases installation.
- High resistance to water, ground chemicals and corrosive salts - durable.

### USES

**TIKIPLAN SL 3017** is designed to waterproof and protect various substrates encountered in tunnels and underground works

- Tunnels
- Basement Floors and Retaining Walls
- Underground Structures
- Sewage lining / Canal lining

### PROPERTIES

Property	Values	Test Standard
Thickness	3 mm (±5%)	UNE EN 1849-2
Tensile Strength, L/T	17 ± 2 N/mm <sup>2</sup>	UNE EN ISO 527-3
Elongation at Break, L/T	≥300 %	UNE EN ISO 527-3
Static Puncture Resistance (CBR)	≥3400 N	UNE EN ISO 12236
Dynamic Puncture Resistance	>1800 mm	DIN 16726 - 5.12
Water Tightness @ 10 Bars, 10 Hours	No Leakage Observed	DIN 16726
Resistance to Oxidation (Tensile Strength Variation)	<25 %	UNE EN 14575
Low Temperature Flexibility @ -25°C	No Cracking	UNE EN 495-5
Tear Strength, L/T	≥45 N/mm	ISO 34 Specimen Fig.2
Root Resistance	No Penetration	CEN TS 144416

### APPLICATION INSTRUCTIONS

The substrate to be waterproofed must be flat, clean, smooth, dry and free from foreign materials. Any irregularities in the substrate must be eliminated before the laying of the membrane.

**TIKIPLAN SL 3017** can be installed using loose laid method or spot fixed mechanically with fasteners.

We recommend that, the installation should be carried out by a skilled applicator having prior experience with PVC membranes application, to realize a perfect and very careful application in any situation. The correct assembly of the membrane must be achieved by hot air weld equipment, either by using manual or automatic equipment.

It is advisable to carry out some sample welding for the adjustment of temperatures of welding machines before starting waterproofing operations, to define the optimal parameters of the membrane welding.

Atmospheric conditions, surface conditions & applicator skill make the difference to get correct and good quality of weld joints.

Independently of the welding system, it is compulsory to make sure that the overlapping joints are cleaned and dry.

## INSTRUCTIONS

**TIKIPLAN SL 3017** is not resistant to tar, bituminous products, oils, fuels, organic solvents, silicones and U.V rays.

**TIKIPLAN SL 3017** is not compatible to the direct contact with extruded/expanded polystyrene, polyurethanes, phenolic foams and their derivatives and with all other plastic materials of different nature from PVC. Hence, always a check for compatibility of **TIKIPLAN SL 3017** shall be conducted prior to installation.

To avoid compatibility issues and puncture damage, a layer of  $\geq 300$ gsm geotextile in polypropylene **DANOFELT PP** must be interposed as separating layer, between the **TIKIPLAN SL 3017** and the substrate.

## SUPPLY

**TIKIPLAN SL 3017** is supplied in standard roll sizes of 2.1m x 20m of 3mm thickness.

Thickness	3.0 mm ( $\pm 0.5\%$ )
Width	2.1 mtr. ( $\pm 0.5\%$ )
Length	20 mtr. ( $\pm 0.5\%$ )
Roll surface	42 m <sup>2</sup> (-0.5/+2%)
Colour	Signal Layer with Dark Base
Specific Weight	4.20 Kg./m <sup>2</sup> ( $\pm 0.5\%$ )

## STORAGE

**TIKIPLAN SL 3017** membranes must be stored above 5°C. Store under the shed & protect from extremes of temperature. Rolls must be stored in upright vertical position. Avoid stacking of rolls horizontally on their sides or in double stack position.

## SAFETY PRECAUTIONS

As with all synthetic products, care should be taken during use and storage of **TIKIPLAN SL 3017**.

**VERSION: R3, 202203**

**Disclaimer:** The technical information, and, in particular, the recommendations relating to the application and end-use of Tiki Tar Danosa (TIKIDAN) products, are given in good faith based on TIKIDAN's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with TIKIDAN's recommendations. The information herein is of a general nature and no assumption can be made as to a product's suitability for a particular use or application and no warranty in respect of merchantability or of fitness for a particular purpose can be inferred from this information. The user alone is fully responsible for the product's suitability for the intended application and purpose. TIKIDAN reserves the right to change the properties of its products.

**Note:** Field service where provided does not constitute supervisory responsibility. Suggestions made by TIKIDAN either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not TIKIDAN, are responsible for carrying out procedures appropriate to a specific application. TIKIDAN reserves the right to amend the composition of its material and consequently their prices, without prior notice. For this reason, all orders will be accepted only in accordance with the conditions and technical specifications in force at the date of order. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

## TIKITAR DANOSA (INDIA) PRIVATE LIMITED

Tiki Tar Estate, Village Road, Bhandup (W), Mumbai - 400 078,  
Maharashtra, India. T: +91 22 4126 6699  
E: [info@tikidan.in](mailto:info@tikidan.in) | W: [www.tikidan.in](http://www.tikidan.in)

