

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 colored co-extrusion method.

The twin color (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 ($\pm 5\%$) | UNE EN 1849-2 |
| Tensile Strength, L/T | 17 ± 2 N/mm ² | 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 $\geq 300\text{gsm}$ 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 ² (-0.5/+2%) |
| Colour | Signal Layer with Dark Base |
| Specific Weight | 4.20 Kg./m ² ($\pm 0.5\%$) |

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**.

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