

TIKIPLAN PL-R

Synthetic PVC Pond Liner

DESCRIPTION

TIKIPLAN PL-R is U.V resistant synthetic flexible reinforced homogeneous plasticized PVC pond liner sheet supplied in aqua blue color.

TIKIPLAN PL-R is flexible sheet which is by nature is relatively impermeable thus providing a barrier to the movement of water and fluids.

ADVANTAGES

- Superior mechanical strength - resists various stresses.
- Resistant to root penetration.
- Good tear and puncture resistance.
- Loose laid - act independently of structural movement.
- High elongation and flexibility – conforms to irregular contours and offer excellent interface friction and tolerance to differential settlement.
- High resistance to water, dissolved salts and chemicals.
- Prevents contaminants from entering water streams.
- Good resistance to U.V rays and thermal cycles.

USES

TIKIPLAN PL-R is designed to control seepage and conserve water by lining ponds, artificial lakes, pools and water bodies and is use in lining of:

- Artificial lakes and ponds.
- Garden pools and fish lakes.
- Irrigation channels in agricultural lands.
- Ornamental pools and decorative lakes.
- Fire water holding ponds.
- Canals.
- Reserve water storages.
- Golf course water holes.
- Containment ponds.

PROPERTIES

Property	Values	Test Standard
Thickness	1.5 / 2.0 mm (-5/+10%)	EN 1849-2
Tensile Strength, L/T	≥1100 N/50mm	EN 12311-2 ISO:527-3
Elongation at Break, L/T	≥10 %	EN 12311-2 ISO:527-3
Peel resistance of Joints	≥100 N/50mm	EN 12316-2
Water Tightness @ 10 kPa	No Leakage Observed	EN 1928 Method B
Low Temperature Flexibility @ -25°C	No Cracking	EN 495-5
Tear Strength, L/T	≥40 N/mm	ISO 34, Method B, V=50mm/min
Water Ansrption	≤ 1% by mass	EN ISO 62 Method 1

APPLICATION INSTRUCTIONS

The substrate to be lined must be sound. The sub-grade should be well compacted (90% to 95% of Proctor optimum value), smooth free from pockets, holes, ruts, discontinuities, large stones, sharp angular materials etc.

The prepared base shall be free of irregularities, protrusions, standing water, loose soil and abrupt changes in grading, weed roots and vegetation etc., that may damage the PVC Liner. If required, anti-weed treatment to the sub-grade shall be done to discourage the weed growth under the PVC Liner.

Provision shall be made for easy under drainage to prevent build-up of hydrostatic pressure due to increase in ground water table or water accumulation in surrounding strata.

Provision shall be made to vent the earthen sub-grade with pipes for easy evacuation of bio-gas under the PVC Liner.

TIKIPLAN PL-R can be installed using loose laid method.

We recommend that, the installation should be carried out by a skilled applicator having prior experience with PVC sheet liner application, to realize a perfect and very careful application in any situation. The correct assembly of the sheet 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 installation operations.

It is compulsory to make sure that the overlapping joints are cleaned and dry.

INSTRUCTIONS

TIKIPLAN PL-R is not compatible to the direct contact with all other plastic materials of different nature from PVC. Hence, always a check for compatibility of **TIKIPLAN PL-R** shall be conducted prior to installation.

TIKIPLAN PL-R is not resistant to bituminous products, tar, oils, fuels, organic solvents, and silicones.

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 PL-R** and the substrate.

SUPPLY

TIKIPLAN PL-R is supplied in standard roll sizes of 2.1m x 20m of 1.5mm and 2mm thickness.

Thickness	1.5mm / 2.0 mm (-0.5/+10%)
Width	2.1 mtr. (-0.5/+2%)
Length	20 mtr. (-0.5/+2%)
Roll surface	42 m ² (-0.5/+2%)
Colour	Aqua Blue Base

STORAGE

TIKIPLAN PL-R sheet 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 PL-R**.

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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 | W: www.tikidan.in

