

PVC GEO MEMBRANE

DESCRIPTION

PVC Geo Membrane is a flexible PVC base high performance waterproofing membrane, manufactured from plasticized polyvinylchloride (PVC) and used as a waterproofing membrane for tunnels and concrete structures and as waterproof and gas resistant liner for water features, lagoons, sewage treatment ponds and landfill sites. A UV resistant grade is available for use on exposed application such as roofs.

PVC Geo Membrane is a flexible PVC base Geo membrane is an effective and long lasting impervious sheet to help prevent the loss of water through seepage. PVC Geo membrane acts as a barrier when lined in water courses. Reservoirs, Canals, Ponds and other areas where water absorbs and lost. PVC Geo membrane has various uses in the Agricultural, Construction and industrial sector.

PVC Geo membrane is used in construction industry for water proofing purposes. Due to PVC high strength polymer based, PVC Geo membrane is flexible and provides excellent three dimensional elongation. The membrane is produce in a thickness of 0.25, 0.5mm, 1mm, 2mm, 3mm & 4mm depending on the application and the specification.

USES

PVC Geo membrane has been developed to provide a tough chemical resistant water and gas proof membrane liner for the following applications:

- Water features
- Artificial lakes
- Canals
- Settling lagoons
- Tunnels
- Basements
- Landfill sites
- Brownfield sites
- Roofs (UVR grade)
- Prevents water seepage
- Extremely cost effective
- High efficient
- Highly flexible
- Has good puncture and tear resistance properties
- Long life (Over 40 years)
- Takes less installation time
- Low installation cost

APPLICATION

PVC Geo membrane is considerably easier than many other types of Geo membrane due to its flexibility and ease of handling. PVC Geo membrane is a good enough impervious barriers and does not need any further cover or treatment and can be laid very easily.

However, in case of irrigation canals and water courses, where there are chances of damage, order to install Geo membrane with hard cover, first the sub grade of required channels is prepared by the field staff and then PVC liner is applied and sealed with solvent base PVC adhesive or thermal weld.

The recommended protection covers can vary from clay (150 mm to 300 mm thick), Concrete (50 mm to 100 mm thick), precast slab (40 mm thick) or single layer of bricks with an intermediate layer Geo textile. The overlap should be approx. 75mm to 100mm.

TECHNICAL PROPERTIES

- Thickness (mm) (mil)
ASTM D 5199 / ASTM D374
 - Specific Gravity
D 792 / ASTM D 638
 - Breaking strength
ASTM D 882 / ASTM D 638
(Mpa) (Psi) (KN/m) (lb/in)
 - Elongation at break (%)
D 882
 - Hydrostatic
ASTM D 751
 - Tear Resistance
ASTM D1004
(KN/m) (lb/in) (N/mm)
 - Low temperature
ASTM D 746
 - Dimensional stability (% loss)
D 1204
 - Water extraction (% loss)
ASTM D 570
 - Resistance to soil burial
(percent change)
- ASTM
Resistance
ASTM
ASTM
Resistance
ASTM
ASTM
ASTM
ASTM



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PACKING

PVC Geo Membrane is supplied in 2.13m x 50m and 1.3 m X 50m rolls as standard. Other sizes are available upon request.

STORAGE

Store in cool dry conditions, away from sunlight, in a flat position.

HEALTHY AND SAFETY

As with all construction chemicals products caution should always be exercised. Protective clothing such as gloves and goggles should be worn. This product is for construction/ industrial use only by trained operatives. It is not considered hazardous in normal use.