



Uni Tex

A GEO TEXTILE PRODUCT

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EARTH PROTECTION SOLUTIONS

UNI-TEX AT A GLANCE

- ▶ Dimensionally stable non-woven solutions for everything soil stabilization and filtration to roadway and landfill applications
- ▶ Resistant to ultraviolet (UV) degradation and to biological and chemical environments normally found in soil
- ▶ Outperforms and are more cost effective than conventional soil methods

ABOUT US

UNIK Fabrics (PVT) LTD (UFL) is a member company of the PCI Group, with a diversified interest in Carpet, Auto parts & Geo textile manufacturing.

PCI Group came into existence in 1949, with the establishment of Pak Carpet Industries. During this time it gained reputation of a leading manufacturer providing total solutions to its customers.

Since inception, UNIK Fabrics is the leader of Non Woven Felt manufacturing. We boast specialized equipment, supported by a dedicated team of qualified individuals all working towards achieving customers expectations in terms of Quality, Cost & Delivery.

Our environmentally friendly manufacturing facility is spread over 20,000 m², and is geared up to meet even the most demanding performance levels.



UNI-TEX



Uni-Tex is a Geo Textile product, and it is the latest venture of UFL.

Uni-Tex products are designed and manufactured for optimum performance. We provide cost saving solutions to civil engineering by substituting more expensive & dwindling natural resources.

Uni-Tex offers an opportunity to reduce costs by accelerating the rate of construction, simultaneously dealing with complex designs of construction.

Uni-Tex manufacturing techniques offer:

- Uniformity
- High strength & elongation
- Superior wearing properties
- Unique hydraulic properties
- Excellent abrasion properties
- No de-lamination

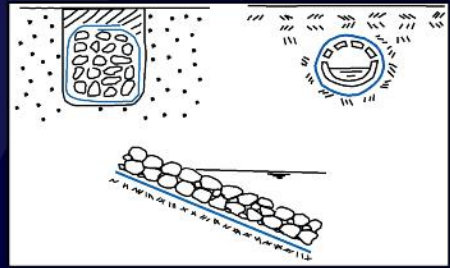
Uni-Tex is a very unique product due to the combination of intensive needling, which ensures that the fibers are bonded vertically, resulting in a 3 dimensional product which performs dynamically in all parameters concerning Geo Textile.

Uni-Tex is available in roll form with the maximum width of 3.5 Meters, which provides better handling during installation. It is easy to carry without incurring any extra cost.

UNI-TEX FEATURES

PROTECTORS

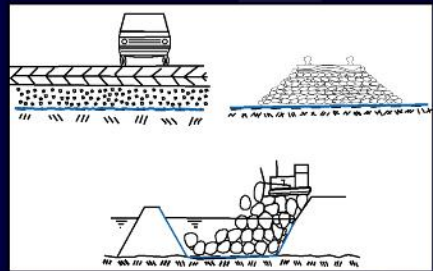
The excellent static puncture resistance and tensile strength ensure excellent protection to more vulnerable materials, such as membranes or liners.



When placed between sealing material and other layers, Uni-Tex withstands and distributes any local pressure from the layers above, ensuring that the protected material is not stressed to failure.

SEPARATORS

Durability, and mechanical properties of Uni-Tex makes it ideal for preventing two aggregates from mixing during construction. It is highly efficient due to the small pore size and high damage resistance.

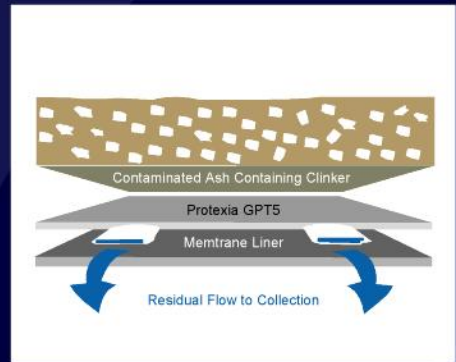


Uni-Tex prevents migration & mingling of materials but allow water to flow, thus increases the bearing capacity & long stability of the foundation layers.

UNI-TEX FEATURES

FILTRATION

The core structure of Uni-Tex is designed for high water flow and good filter properties. When fine-grained particles are retained, free movement of water is restored. This makes separation of two layers possible during intense hydraulic activity.



Migration of layers, which would reduce the load-bearing capacity of the system, is thereby avoided and at the same time water flow is maintained, consequently improving the stability and life of the entire construction.

STRESS RELIEVING

Pre-compressed & flexible, Uni-Tex is especially designed for stress absorption. It is ideal for both road construction & road maintenance as it soaks up differential movements in the road layers and prevents reflective cracking.



UNI-TEX APPLICATIONS

Landfill

Uni-Tex is very popular in the landfill industry. Uni-Tex acts as a membrane protector against initial installation damage & long term environmental stress cracking. Uni-Tex is ideal for this function as it offers particularly high puncture resistance and is chemically durable.

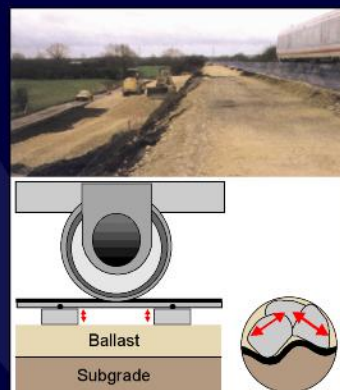


Coastal Defence

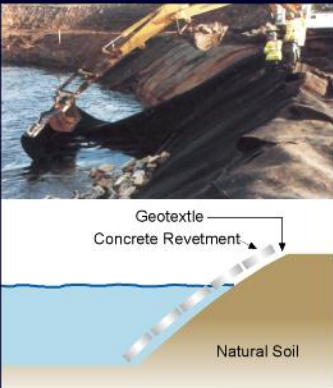
Uni-Tex possesses natural properties like; good abrasion resistance, high permeability, fine filtration & good durability, which are essential for coastal engineering. It resists the installation stresses associated with the placing of rock armor & gives the required performance under waves & tidal attack.

Rail Track Maintenance & Renewal

Uni-Tex is used as a separator to help reduce track failure. Placing it in between a layer of ballast and erodable soil reduces ballast contamination and the resulting deformation of the railway tracks. Good permeability, fine filtration and high damage resistance of Uni-Tex makes it excellent for the job.

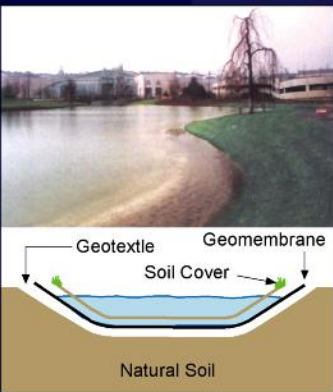


UNI-TEX APPLICATIONS



Rivers & Waterways

Uni-Tex is also used as separators & filters in these applications, for example as river bank protection to help prevent the soil being eroded by the scouring action of the river. Uni-Tex is ideal for such applications due to high permeability and fine filtration properties together with the ease of installation.



Lakes & Reservoirs

In the construction of reservoirs, lagoons & ornamental lakes, Uni-Tex is used as a membrane protector. It is excellent in such a role due to particularly high puncture resistance & durability.

Contaminated land

Covering areas of contaminated land with Uni-Tex prevents the migration of contaminated particles into clean soil and also as a warning barrier for future excavation.



TECHNICAL SPECIFICATIONS

The technical specification of Uni-TEX in the categories according to its usage & applications.

	Test & Units		Erosion Control	Drainage	Roads	Railway	Landfill
1	Tensile	N	912	712	512	1335 ~ 1736	756 ~ 979
2	Elongation	%	50	50	50	50	50
3	Puncture Strength	N	490	378	289	779 ~ 1112	490 ~ 601
4	CBR Puncture	N	2335	1824	1379	3670 ~ 5004	1935 ~ 2558
5	Trape Zoidal Tear	N	378	267	222	512 ~ 690	312 ~ 423
6	Apparent Opening	mm	0.18	0.212	0.212	0.15	0.212 ~ 0.18
7	Permitivity	Per Sec	1.5	1.3	2	1.0 ~ 0.7	1.3 ~ 1.5
8	Flow Rate	Ltr/Min/m ²	4480	4480	5704	3056 ~ 2037	4480 ~ 4480
9	UV Resistance	%Retained @ 500 hrs	70	70	70	70	70

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