

# GeoTek™

non woven geotextile

GENERAL BROCHURE



**GeoTek™ - Designed to provide effective and economic solutions**

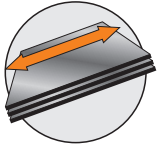


The **GeoTek™** range of needle-punched non-woven geotextiles are manufactured from 100% Polyester continuous filaments. They are characterised by a high resistance to installation damage, high water permeability and are naturally UV resistant.

**GeoTek™** Geotextiles are highly resistant to commonly encountered soil chemicals, mildew, insects, and acid or alkaline environments. **GeoTek™** is non-biodegradable and is available in a range of grades depending on the particular engineering application required.

**GeoTek™** non-woven geotextiles are manufactured to the highest international standards and have ISO9001:2008 accreditation. As a result you can rest assured that, when you use **GeoTek™** geotextiles for your construction project, you will receive the same top quality from the first to last metre on the roll.

## FUNCTIONS SERVED BY GeoTek™ NON-WOVEN GEOTEXTILES



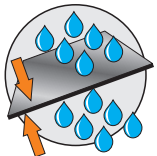
### REINFORCEMENT

The good tensile mechanical properties of GeoTek™ geotextiles in conjunction with the soil's good comprehensive but poor tensile properties improve the total system's strength interaction. The high strength and low elongation of the geotextiles are ideal for reinforcing embankments of roads, slopes and retaining walls.



### SEPARATION

The placement of GeoTek™ flexible and porous geotextile between dissimilar earth materials allows for the integrity and functioning of both materials so that they can be improved or remain intact.



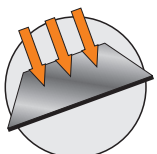
### FILTRATION

GeoTek™ non-woven geotextiles work in equilibrium with the soil to allow for adequate liquid flow with limited soil loss across the plane of the geotextile while avoiding pore clogging.



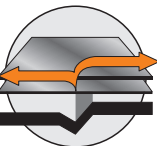
### DRAINAGE

The equilibrium between the soil-to-GeoTek™ geotextile system allows for adequate liquid flow while maintaining limited soil loss within the plane of the geotextile. The hydraulic properties of the geotextile are suitable to establish structural stability by controlling excess amounts of water during and after construction.



### PROTECTION

GeoTek™ non-woven geotextiles offer perfect damage protection to geomembranes and other coated materials that may occur from contact with sharp soil surfaces such as stones or sub grade unevenness. The geotextiles' thickness and mass are directly proportional to the amount of protection that they can offer.



### EROSION CONTROL

GeoTek™ non-woven geotextiles can be utilised for erosion control of slopes, shoreline protection, and river bank flood control.

## Light Grades

Applications	GT14A
Asphalt Overlay / Spray Seals	X
Road Stabilisation / Separation	X
Rock Armour Underlay	X
Railroad Stabilisation	X
Sub Surface Drainage	✓
Environmental	
Geomembrane Protection	X
Gas Collection System	X
Leachate Collection System	X
Erosion Control	✓

## Medium Grades

Applications	GT24B	GT34C
Asphalt Overlay / Spray Seals	X	X
Road Stabilisation / Separation	☑	✓
Rock Armour Underlay	X	☑
Railroad Stabilisation	X	X
Sub Surface Drainage	✓	✓
Environmental		
Geomembrane Protection	X	X
Gas Collection System	✓	✓
Leachate Collection System	✓	✓
Erosion Control	✓	✓

## Heavy Grades

Applications	GT44D	GT54E	GT64
Asphalt Overlay / Spray Seals	X	X	X
Road Stabilisation / Separation	✓	✓	✓
Rock Armour Underlay	✓	✓	✓
Railroad Stabilisation	✓	✓	✓
Sub Surface Drainage	☑	☑	☑
Environmental			
Geomembrane Protection	☑	✓	✓
Gas Collection System	☑	☑	☑
Leachate Collection System	☑	X	X
Erosion Control	✓	✓	✓

Distributed by: \_\_\_\_\_

✓ Primary Application

☑ Secondary Application

X Not Recommended

