



Tech Geomattress

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TECHFAB INDIA

At the heart of geosynthetic activity

River Embankment Protection with Tech Geomattress



What is *Tech GeoMattress?*

The Tech GeoMattress system is a flexible revetment protection system. Tubular system is manufactured from two layers of geotextile, upper layer is green colored composite fabric having green cut fiber on top and bottom layer is high strength woven fabric. The upper layer provides long lasting UV protection and enhancing natural vegetation growth and gives attractive look of the protected bank. The tubular shape of GeoMattress helps in dissipating energy of longitudinal current and wave action of stream, this helps in reducing velocity at banks & controls the scouring and erosion.

Why *Tech GeoMattress?*

- 1 **Highly efficient in controlling erosion of slope in water channels**
- 2 **Once filled with infill material, it becomes robust as well as flexible revetment with an excellent abrasion and UV resistant**
- 3 **Promotes natural vegetation growth by entrapping sediments in its grooves**
- 4 **Compared to other revetment solutions, it is economical, time efficient & easy to transport**
- 5 **Tech GeoMat system also works efficiently as filter and effective in dissipating pore pressure during drawdown**
- 6 **It provides an aesthetic green look to structure and gets camouflaged with surrounding**
- 7 **Sustainable & Eco-friendly**



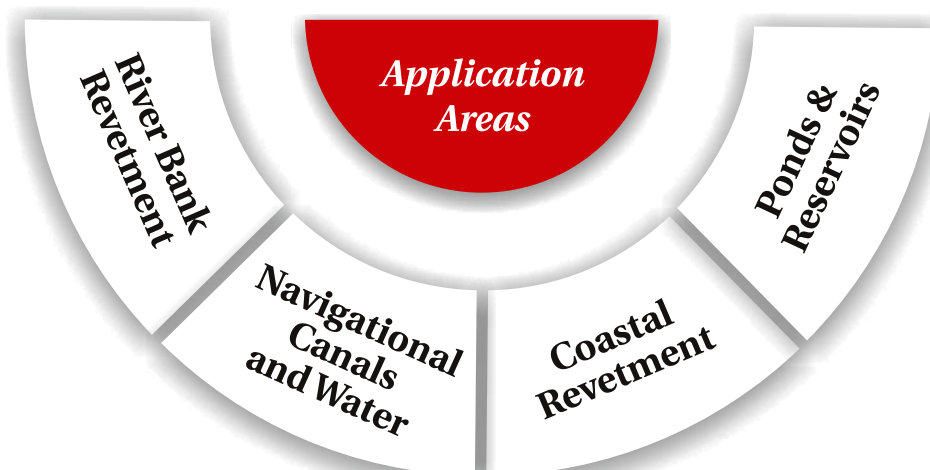
Advantage over Conventional Revetments

	Tech GeoMattress	GeoBags	RipRap
	Stable under wave action	Displaced under wave action	Displaced under wave action
	Dissipate pore pressure with no erosion	Dissipate with mild erosion	Dissipate with high erosion
	Promotes vegetation growth	Less vegetation growth	No vegetation growth
	Less installation & Transportation cost	High Installation cost	Very high transportation & installation cost
	Speedy & easy Installation	Slow	Very Slow

The Tech GeoMattress System is an ideal choice of Geosystem for quick construction of Green & Ecofriendly Revetments along river banks, Protection of slopes from Erosion, or in Lining works in Canals. Tech GeoMattress is a three-dimensional Tubular Green Mattress system which is used for formation of a protection system over slopes in water channels. Tech GeoMattress is manufactured from engineered fabrics, upper layer is a Composite fabric having Woven Substrate needle punched with nonwoven green Fabric, which provides green color to mat as well as helps in rapid growth vegetation and shielding from UV attack. Bottom woven layer is a specially engineered fabric that provides base and filter properties to the system.

The unique tubular shape of mattress helps in dissipating energy of longitudinal current and wave action of stream, this helps in reducing velocity at banks & controls the scouring and erosion. It is economical, easy to install and uses simple equipment without the requirement for skilled labour, installation can be done hydraulically or Mechanically. Adjacent rolls of Sand Filled GeoMattress are joined by seaming on site. Finally, the Sand Filled Mattress is anchored in a trench at the top of the slope.

The Tech GeoMattress is supplied in rolls which can be easily handled on site. Laid with parallel tubular sections running down the slope, each are hydraulically filled with sand through the top openings.



■ ABOUT TECHFAB INDIA INDUSTRIES LTD

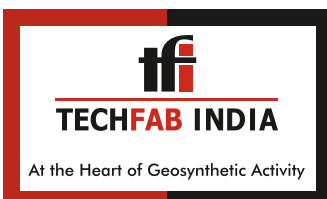
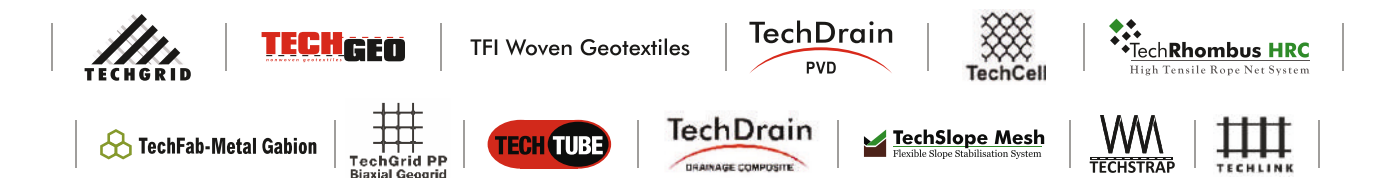
TechFab India was founded in 2003 with the objective of providing world class geosynthetic products and services to serve the needs of manufacturing development in India. From a modest beginning with the setting up of a manufacturing facility for woven geotextiles in Silvassa, we have rapidly grown to become the largest manufacturer of geosynthetics and Rockfall protection & GeoHazard Mitigation products in India. Today we manufacture a wide range of products at our factories in Silvassa Daman and Haridwar. Details are as under:

- ▶ TechGrid Knitted and polymer coated Polyester Geogrids (BIS & CE Marked & BBA Certified)
- ▶ TechGrid-Base Reinforcement Geogrids (BIS & CE Marked)
- ▶ TechLink
- ▶ Tech GeoMattress
- ▶ TechGeo Needle Punched Nonwoven Geotextiles (BIS & CE Marked)
- ▶ TFI 3000 Woven PET (CE Marked)
- ▶ TGC Reinforced Nonwoven
- ▶ TechPave Paving Geotextiles (CE Marked)
- ▶ TechFab Metal Gabions (BIS & CE Marked)
- ▶ TechDrain - Prefabricated Vertical Drains (CE Marked)
- ▶ TechTube Geotextile Tubes
- ▶ TechFab Geotextile Bags (BIS Marked)
- ▶ TechDrain Drainage Composites (CE Marked)
- ▶ TechGrid PP Biaxial Geogrid (BIS & CE Marked)
- ▶ TechCell GeoCells (BIS & CE Marked)
- ▶ TechStrap Polyester Strap (BIS & CE Marked)
- ▶ Tech Fibre - PP Staple Fibre
- ▶ TechRhombus (CE Marked)
- ▶ TechSlope Mesh
- ▶ Tech Anchor - Self Drilling Anchors



World-class Geosynthetics Manufactured in India by Techfab India Industries Ltd.											
TFI Woven Geotextiles		TechGrid Geogrids	TGC Reinforced Nonwoven Composites	TechDrain PVDs	TechDrain Drainage Composite	Tech GeoMattress	TechGeo Nonwoven Geotextile	TechFab Metal Gabion Double twist wire mesh products	TECHTUBE & Geotextile Bags	TechGrid PP Biaxial Geogrids	TechStrap TechLink
Polypropylene Multifilament	Polyester Multifilament						TechPave				

TechFab In house laboratory is accredited With ISO/IEC - 17025:2017 & GRI - GAILAP



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Head Office :

46 & 47, Maker Chambers VI, Nariman Point, Mumbai - 400021, India

● Tel. : + 91-22-2287 6224 / 25

● Email : info@techfabindia.com, anant@techfabindia.com

Regional Offices : New Delhi ● Hyderabad ● Vadodara