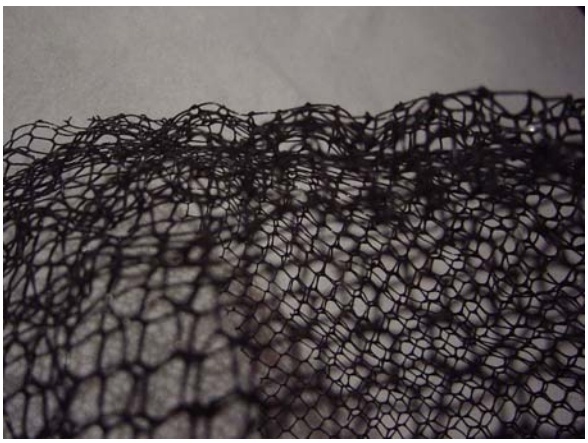
3D Geo-mat



Description

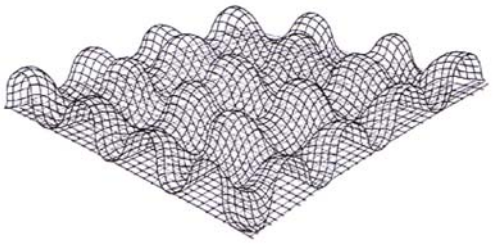
3D Geo-mat is a synthetic erosion control mat made from a mesh of UV stabilized polymer fibres. Its multi-layered filament structure has a flat base to provide good contact with the sub-surface. Its 3D structure adds stiffness and stability to the soil. 3D Geo-mat protects the soil from erosion and supports and reinforces the root zone. Once vegetated, the protection layer creates an environmentally friendly surface that can withstand heavy rains and water flows (up to 4m/sec) while increasing infiltration and reducing discharge.

Applications: The light weight and flexible 3D Geo-mat is easy to handle and install. It can be used:

- As a substitute for concrete or stone walls for slope protection.
- As an integrated erosion control system on steep slopes and erosion prone areas.
- To prevent erosion on river embankments, channels and flood plains.
- To re-vegetate the sides of roadways and landfill sites.
- To ensure a stable cover necessary to protect geomembranes from UV radiation.

Technical Data

Product:	3DGM 3L	3DGM 5L
Layers	3	5
Average Weight (g/m2)	>260	>430
Thickness (mm)	>14	>16
Fibre Thickness (mm)	0.5	
Tensile strength (kN/m)	>2.2	>3.4
Elongation (%)	<30	
Colour	Black or Green	
Carbon Black %	2	
Width (m)	1.5 - 2.0	1.5 - 2.0
Length (m)	30-50	30-50



Installation involves:

- Shaping and compacting the sub soil to the required profile.
- Unrolling the 3D Geo-mat down the slope and fixing it in position with 150-300mm U-Pegs. U-Pegs should be spaced between 300mm and 700mm depending on the substrate to ensure that the 3D Geo-mat makes contact with the surface. Overlaps should be pegged at 100mm centres in dry applications and 300mm in wet applications.
- Anchoring the top of the embankment in spade-deep trenches and, where necessary, anchoring the edges, to prevent the 3D Geo-mat slipping on the slope and uplift.
- Longitudinal edges should be overlapped 50mm and transverse edges overlapped 150mm.
- After seeding the subsurface at a rate of 20-30g/m^2, lightly cover the 3D Geo-mat with 35mm of soil and compact it. Alternatively, a spray mulch or pre-established turf can be applied over the 3D Geo-mat.