



TerraMat™ 3D

Erosion Control

TerraMat™ 3D

TerraMat™ 3D is a synthetic turf reinforcement mat, which protects underlying soil from erosion and provides a reinforcing matrix for vegetative root growth. Its multi layered 3 dimensional structure combined with its flat, high modulus base layer, provides the following benefits:

1. Good contact with the existing surface
2. Tensile strength
3. Stiffness and dimensional stability to the soil surface

In addition the upper cusped pockets provide the following benefits:

1. Reinforces the root system
2. Reduces the impact of raindrops
3. Minimise the dislocation of soil particles

Properties	Units	TM3	TM5
Tensile Strength	kN/m	>2.2	>3.4
Layers	-	3	5
Mass	g/m ²	>260	>430
Thickness	mm	>14	>16
Elongation	%	<30	
Fibre Thickness	mm	0.5	
Colour	-	Black	
Carbon Black	%	2	
Raw Material	-	UV stabilised HDPE	
Roll Size	m x m	1.5 x 30	
Pinning	-	Use 150mm to 300mm U-Pins @ 250mm to 750mm centres or as per drawings. Overlapping rolls pinning is @ 150mm centres.	
Anchoring	-	Use 300mm x 300mm trench or as per drawing	
Overlap	mm	50mm to 150mm	

Applications

TerraMat™ 3D can be used in a variety of applications, including:

1. Embankments - To control erosion on steep slopes
2. Channels, banks of rivers and lakes
3. Landscaping - To stop erosion of soil, and mulch on batters and slopes
4. Golf Courses - Used in the walls of sand bunkers to stop the erosion of sand

Installation

Installation of **TerraMat™ 3D** is a straight forward process, involving:

1. Shaping and compacting the subgrade or embankment to the required profile
2. Install TerraMat™ by unrolling the product down the slope and fix in position using steel U-Pins
3. On slopes with irregular surface, more fixing pins may be needed to ensure contact with the surface
4. Trench at the top of the embankment and appropriate edges to prevent slipping on slope and uplift
5. Longitudinal edges overlapped 50mm in a shingle effect. Transverse edges by 150mm. Avoid using short lengths less than 1 metre
6. Sow grass seeds either by premixing with the soil or hand spreading
7. Place gently 30mm to 40mm soil cover completely over the mat and lightly compact
8. Alternatively omit step 6 and spray mulch or lay turf

Consult Polyfabrics Australia Pty Ltd or a certified Engineer for site specific installation instructions.