



Jeevan
Ecotex
Sustainable Weaves

EcoMattress

EcoTextile Mattress is a three dimensional permeable flexible formwork made with high strength EcoTextile. It is made of bonded filament and can be filled with concrete mortar or sand slurring depending on the application.

Sand filled mattress is designed for high-velocity river protection. This is a flexible Erosion Control System that utilizes filtercloth as pockets for granular infill materials. Its mobility and effectiveness have made this erosion control system the most popular erosion control product in wet areas. After installation, it provides instant and permanent Embankment Protection while bringing in a green aesthetic look with vegetation.

Jeevan Ecotex is one of the biggest Indian Sand Filled Mattress Manufacturers that provide effective Embankment Protection solutions



Applications



Flood mitigation channels and protection works



Protection of the sea-bed around jetties



Navigational canals and waterways



Riverbank protection

Functions

- ✔ Prevents erosion and repairs existing problem as it stays on top of the problematic surface
- ✔ Dissipates the surge of hydraulic pressure when soil is susceptible to slumping under wave action
- ✔ Economically solving river bank and estuary bank erosion problems by replacing the expensive or unsightly concrete faced systems

How EcoMat is Installed

Step 1

Cleaning ground surface of the site



Step 2

Cutting EcoMat to specific size and laying it on target slope



Step 3

Anchoring the EcoMat at the top of the slope and at the toe



Step 4

Unrolling it parallel to the slope



Step 5

Overlapping the geomat as specified on the design drawing and anchoring it



Step 6

Pumping sand slurry in it



EcoMattress

Specification

Peak height 33cm

Spacing 35cm

Width 3.85 m (flat without filling)

Length 40m

Colour - green on exposed side

Design Properties

- ✓ Wide width tensile strength
- ✓ Apparent opening size (aos)
- ✓ Permeability
- ✓ CBR puncture resistance
- ✓ Grab tensile strength & elongation

Benefits



Easy and rapid transportation and installation. Strong, flexible and lightweight, so it can be easily transported to site and does not require much skilled manpower.



Highly economical because of its inexpensive polymeric material and less complex installation.



Saves time because it is installed very simply, allows easy construction, and thus the project is completed quickly.



Replaces shotcrete slope protection engineering method with a more environment-friendly method.

About Us

Jeevan Ecotex is a leading manufacturer of technical textile with state-of-the-art manufacturing facilities at multiple locations. It is an ISO 9001: 2015 certified company, providing customised solutions.

Why Jeevan Ecotex

We are uniquely placed as the only major geosynthetics player with in-house installation capabilities and our own manufacturing unit. Other advantages are –

- ✓ Strong brand association with reputed clients
- ✓ Continuous online monitoring of production
- ✓ Traceability with no human errors
- ✓ Products customised as per requirements
- ✓ Cost friendly & environment friendly manufacturing methods

Jeevan Ecotex Private Limited

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