Foreshore Protection Pty Ltd

THE EROSION CONTROLLER

ABN: 64 001 164 352

GROUT MATT TECHNOLOGY

100% AUSTRALIAN SOLUTIONS
TO PROTECT AND STABILISE

- Water reservoirs, Ponds, Lakes, Retention Basins
- Open Canal, Channel and Drain lining
- Dams and Earthen Levee Banks
- Spillway aprons, Floodways, Causeways
- Sea Walls, Jetties, Boat ramps, Marinas
- Culverts, Bridge Abutments and Embankments
- Underwater concreting / Scour protection
- Pipeline and Cable protection_Above & Below water
- Pile & Column jacketing / reconstruction

OVERVIEW:
Foreshore Protection are proprietary manufacturers of a range of specialised, double sided, woven polyester fabrics.

These fabrics are inflated with concrete to install a chosen thickness and type of concrete slab – above or below water.

Installation is undertaken by trained, expert installers, and requires basic tools and a grout pump.

The purpose of the products and system:
The primary purpose is to place a concrete lining of a chosen thickness, above or below water.

This is achieved by pumping a high strength cement and graded sands grout mix into a specially woven, double layered geo-fabric.

The fabric serves the purpose of a permanent 'flexible formwork' that conforms to, and reflects the ground surface conditions.

Fabric is tailored on site to suit specific site conditions, then placed on stable ground and into 'cutoff' trenches.

By pressurising a zone, excess water is removed and the result is a concrete slab of chosen thickness and type to suit a given job.

MATTRESS STYLES:

Filter Point (FP):
FP mattress is woven to join at set intervals.
By varying the spacings of the filter points in the loom, the final inflation thickness changes.
FP is made to provide concrete 70 to 150mm thick.
The Filter Points release ground hydrostatic pressure.

Uniform Cross Section (UCS):
UCS mattress does not have Filter Points. Thickness is controlled by weaving strands that separate the fabric layers and alters the concrete slab thickness.
Usually used in fluid containment situations and where great mass is needed. Thicknesses: 100 to 320mm.

Collapsible Block (CB):
CB is an extreme duty product, usually used to resist propeller scour at wharves. CB comprises of a grid of heavy concrete blocks / 'pillows'. The 'pillows' are joined by grout tubes and heavy polyester perimeter hinges that allow good articulation.
Thicknesses: 150 to 350mm

Growth Matt (GM):
GM is a light duty product, used where aesthetics are a primary factor. It comprises of a grid of 80mm dia concrete tubes, with polyester strands in between.
By applying seeded topsoil before and after installation, the vegetation root structure and GM work in harmony to effectively resist up moderate flows.

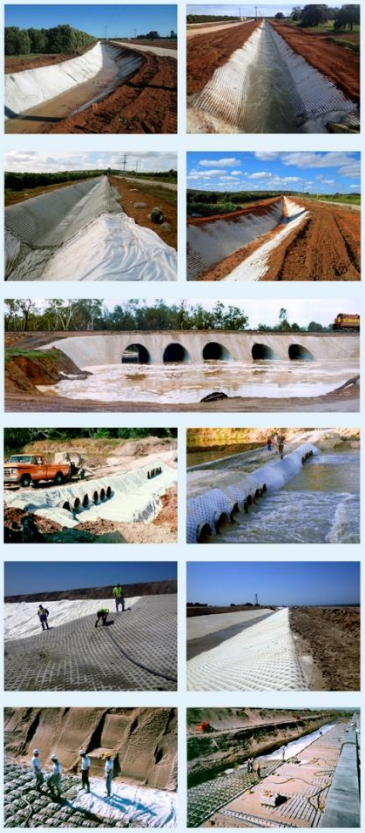
METHOD:

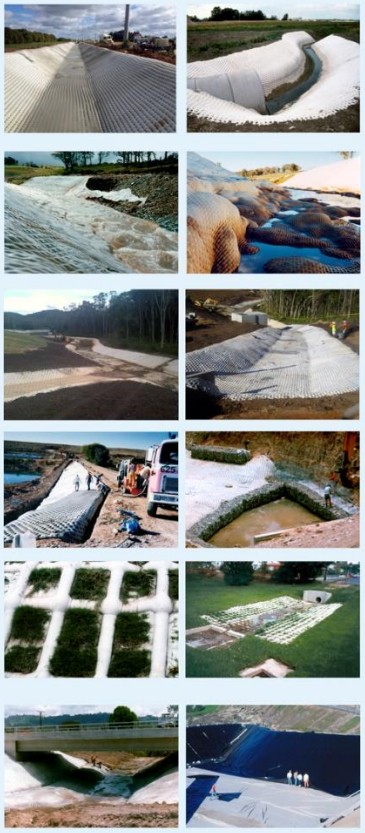
(1) Prepare Earthworks – with perimeter trenching:

(2) Measure and Tailor on site:

(3) Cut hole in top layer - Insert Grout hose – Commence pumping:

(4) When finished – remove Grout hose and plug hole – move to next compartment.





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