



TEC Mat® Coir

Erosion Control

TEC Mat® Coir is a natural fibre matting made from 100% natural coconut fibre that is spun and woven into a matting available in various grades. TEC Mat® Coir is an open weave geotextile that is fully biodegradable adding organic matter to the soil. As coir is an abundant and renewable resource, TEC Mat® Coir is widely used in civil engineering, landscape and slope stabilisation applications. When vegetated, it has the mechanical strength necessary to hold soil in place and prevent erosion. The coir netting slows down runoff from heavy rains and dissipates the energy of flowing water and wind. TEC Mat® Coir also promotes the growth of new vegetation by absorbing water and preventing the topsoil from drying out.

TEC Mat® Coir has double the life of jute and higher tensile strength than other organic geotextiles with longevity of around 3-5 years. This allows ample time for natural vegetation to establish and therefore stabilise the area.

TEC Mat® Coir is ideally suited for preventing and controlling erosion even on steep slopes. When installed according to our recommendations and planted into or seeded, the TEC Mat® Coir will not only stabilise the area but also retain moisture and assist seed germination.



Specifications

Conditions	TEC Mat® Coir 4	TEC Mat® Coir 7	TEC Mat® Coir 9
	Level 1	Level 2	Level 3,4,5
Water Flow Velocity (m/s) (observed)	2.7	3.8	4.8
Slope/Profile	<70°	<70°	<85°
Minimum Vegetation Required	Tube Plants	Tube Plants or Gro-Tubes	Gro-Tubes
Open area measured (per sqm)	65%	50%	39%
Mass per unit area	400gsm (nominal)	700gsm	900gsm
Thickness (at 2kPa)	7mm (nominal)	7.5mm	7.5mm
Roll Size	2m x 25m	2m x 25m	2m x 25m

Consult Polyfabrics Australasia or a certified Engineer for site specific installation instructions. Polyfabrics Australasia reserves the right to change its product specification at any time. It is the responsibility of the specifier and purchaser to ensure that product specifications used for design and procurement purposes are current and consistent with the products used in each instance.

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INSTALLATION GUIDE

TEC Mat® Coir is an effective way to prevent soil erosion on slopes and re-establish natural vegetation. The coir matting is easy to install and is fully biodegradable. Apart from the usual maintenance required to sustain the vegetation, no further work is needed after the initial installation.

1. Prepare the area to be treated to a smooth even grade. Remove all protruding rocks, root stumps, etc. and treat the soil to promote maximum plant growth.
2. Lay the TEC Mat® Coir rolls in the direction of water flow. Adjoining rolls should be overlapped by a minimum of 100mm.
3. TEC Mat® Coir should be overlapped away from prevailing wind and water flow direction.
4. A trench, no less than 300mm deep, should be dug at the top of the embankment. Peg the TEC Mat® Coir down into the trench at a minimum of 1m centres or closer. Backfill the trench and compact.
5. Depending on the steepness of the slope, TEC Mat® Coir should be pegged at a minimum of 1m centres, (i.e. the more pegs used, the more secure the matting will be) with particular attention being paid to side and end runs. Side and downhill joints should overlap by no less than 100mm with the top run overlapping.
6. As water velocities increase, TEC Mat® Coir should be pinned at reduced centres.
7. Peg down the nettings as above using steel pegs to suit the site.
8. Vegetate the site as specified.
9. Maintain and water the site as required to promote the growth of vegetation.



NOTE

All erosion control matting should be pinned at 1 metre centres or closer if required. For steep slopes and embankments, EcoLogs® will provide an added barrier to reinforce the use of products listed above. EcoLogs® should be staked at 1 metre intervals.

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