Coco Coir Geotextiles

Sustainable Solutions for Erosion Control











Coco Earth Harvest Geo Textile Products

 At Coco Earth Harvest, we offer two primary erosion control solutions: Coco Coir Erosion Mats and Coco Coir Erosion Logs.

Erosion Mats:

Eco-friendly, biodegradable mats designed for broad surface coverage to stabilize soil and support vegetation growth. Ideal for slope stabilization, landscaping, and revegetation projects.

Erosion Logs:

Cylindrical coir fiber structures, perfect for localized erosion control in high-flow areas like riverbanks, shorelines, and steep embankments.





Applications

Slope Stabilization



Coir mats prevent soil erosion, while logs stabilize slopes by reducing water flow

Shoreline Protection



Mats support
vegetation
growth; logs
control sediment
and manage
water flow.

Construction Sediment Control



Mats cover soil, logs redirect water and trap sediment on roadsides and construction sites.

Wetland Rehabilitation



Mats aid revegetation; logs stabilize edges and manage water in wetlands and landscaping

Landscaping Projects



Coir mats create visually appealing, stable terrains, while logs define pathways and protect soil

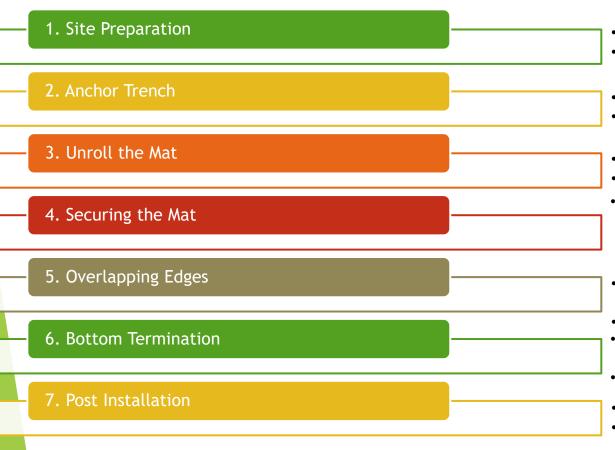


Types of Erosion Control Mats

	Product	Dimensions (m)	Weight (g/sq ft)	Rolls/40ft Container	Description
40	00g Erosion Control Roll	2 x 50	400	400	Great for areas requiring moderate erosion protection, providing a natural layer to stabilize soil without synthetic materials.
70	00g Erosion Control Roll	2 x 50	700	/50	Offers enhanced erosion resistance, ideal for steeper slopes and areas subject to higher water flow.
90	00g Erosion Control Roll	2 x 50	900		Provides maximum density and erosion protection for extreme conditions and high water flow areas.



Installing Coir Erosion Mats



- Clear the area of debris, rocks, and vegetation.
- Grade the soil to a smooth, uniform surface.
- At the top of the slope, dig a 6-inch deep by 6-inch wide trench.
- Secure the mat's leading edge into the trench, backfill, and compact.
- Roll the coir mat downward along the slope, ensuring full soil contact.
- Avoid stretching; the mat should lie loosely against the soil.
- Anchor the mat using U-shaped metal staples or wooden stakes at regular intervals:
 - Edges and overlaps: 12-inch spacing
 - Center area: 2 to 3 feet spacing, depending on slope steepness
- When multiple mats are needed, overlap adjacent edges by at least 6 inches.
- Secure overlaps with staggered staples to prevent water penetration.
- At the slope's base, anchor the mat in a 6-inch by 6-inch trench to prevent underflow.
- Backfill and compact the trench after securing the mat.
- Inspect the installation after rainfall to ensure stability.
- Repair any displaced areas promptly to maintain effectiveness.



Installing Coir Erosion Control Logs



1. Site Preparation	 Remove debris and vegetation from the installation area. Level the ground or slope to ensure proper contact with the coir logs. Place coir logs parallel to the water flow or along the slope. Ensure the logs are flush with the ground to prevent undercutting Use wooden stakes spaced 2-3 feet apart along the log's length. Drive stakes into the ground on both sides of the log, leaving 4-6 inches exposed. Wrap coir twine around the log and stakes to secure it. Ensure tight wrapping to prevent movement during water flow or rain. When joining multiple logs, overlap the ends by 6-12 inches. Secure overlaps with additional stakes and twine for stability. Backfill soil tightly against the logs to stabilize them. Plant vegetation or seeds along and behind the logs to encourage long-term erosion control. Regularly inspect after rainfall to ensure logs remain stable. Adjust and resecure as needed to maintain functionality.
2. Positioning the Logs	
3. Anchoring the Logs	
4. Securing the Logs	
5. Overlapping Logs	
6. Back Filling and Vegetation	
7. Inspection and Maintenance	



Case Study: Sustainable Streambank Stabilization



Project Overview

Location:

Backyard streambank subject to severe erosion.

Objective:

Stabilize the streambank, prevent soil erosion, and promote vegetation growth using eco-friendly materials.

Challenges

- Significant erosion from water runoff.
- Difficulty establishing vegetation on steep slopes.
- Need for an environmentally friendly solution.

Solution

- Coir Logs: Positioned at the streambank base to block water flow and trap sediment.
- Coir Mats: Covered the slope to stabilize soil and create a base for vegetation growth.

Stabilized the streambank and reduced soil erosion.

- Vegetation Growth: Native plants thrived, creating a natural root system for long-term stability.
- Sustainable Approach: Biodegradable coir materials enhanced the ecosystem without harming the environment.





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