

# Coco Coir Erosion Mats

Sustainable Solutions for  
Erosion Control



# Urban Planter Erosion Control Products

- At Urban Planter, 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.

**Erosion Mats**



**Erosion Logs**



# 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

Product	Dimensions (m)	Weight (g/sq ft)	Rolls/40ft Container	Description
<b>400g Erosion Control Roll</b>	2 x 50	400	400	Great for areas requiring moderate erosion protection, providing a natural layer to stabilize soil without synthetic materials.
<b>700g Erosion Control Roll</b>	2 x 50	700	250	Offers enhanced erosion resistance, ideal for steeper slopes and areas subject to higher water flow.
<b>900g Erosion Control Roll</b>	2 x 50	900	110	Provides maximum density and erosion protection for extreme conditions and high water flow areas.

# Installing Coir Erosion Mats



## 1. Site Preparation

- Clear the area of debris, rocks, and vegetation.
- Grade the soil to a smooth, uniform surface.

## 2. Anchor Trench

- 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.

## 3. Unroll the Mat

- Roll the coir mat downward along the slope, ensuring full soil contact.
- Avoid stretching; the mat should lie loosely against the soil.

## 4. Securing the Mat

- 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

## 5. Overlapping Edges

- When multiple mats are needed, overlap adjacent edges by at least 6 inches.
- Secure overlaps with staggered staples to prevent water penetration.

## 6. Bottom Termination

- 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.

## 7. Post Installation

- Inspect the installation after rainfall to ensure stability.
- Repair any displaced areas promptly to maintain effectiveness.

# Installing Coir Erosion 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.

## 2. Positioning the Logs

- Place coir logs parallel to the water flow or along the slope.
- Ensure the logs are flush with the ground to prevent undercutting..

## 3. Anchoring the Logs

- 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.

## 4. Securing the Logs

- Wrap coir twine around the log and stakes to secure it.
- Ensure tight wrapping to prevent movement during water flow or rain.

## 5. Overlapping Logs

- When joining multiple logs, overlap the ends by 6–12 inches.
- Secure overlaps with additional stakes and twine for stability.

## 6. Back Filling and Vegetation

- Backfill soil tightly against the logs to stabilize them.
- Plant vegetation or seeds along and behind the logs to encourage long-term erosion control.

## 7. Inspection and Maintenance

- Regularly inspect after rainfall to ensure logs remain stable.
- Adjust and resecure as needed to maintain functionality..



## **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.
  - Secured both products with stakes to ensure stability.



## Results Immediate Impact:

- 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.

# For more information scan me

