COIROON

Naturally Engineered.

Coir Erosion Control Mats

Natural Coconut Fiber Solution for
Sustainable Soil Stabilization

✓ SUSTAINABLE ✓ DURABLE ✓ BIODEGRADABLE

Ideal for:

Civil engineering projects

Infrastructure construction

Landscaping developments

Environmental restoration programs



✓ Sustainable Ground Reinforcement

✓ 100% Natural Coconut Fiber

Soil Erosion in Modern Construction

Soil erosion is a major challenge in construction, landscaping, and environmental restoration projects. Heavy rainfall, wind, and surface runoff can quickly wash away exposed soil, leading to:



Without proper soil protection, erosion can compromise slope stability and environmental compliance.

A Natural Engineering Solution

COIROON Coir Erosion Control Mats provide a sustainable solution for stabilizing soil while promoting vegetation growth.

These biodegradable mats protect exposed soil until vegetation becomes fully established.

What Are Coir Erosion Control Mats

Coir erosion control mats are biodegradable blankets made from natural coconut husk fibers.

Coconut coir is extracted from the outer shell of coconuts and is widely recognized for its durability and environmental performance.

Key Material Characteristics

- High Tensile Strength
- Natural Durability
- Excellent Moisture Retention
- Fully Biodegradable

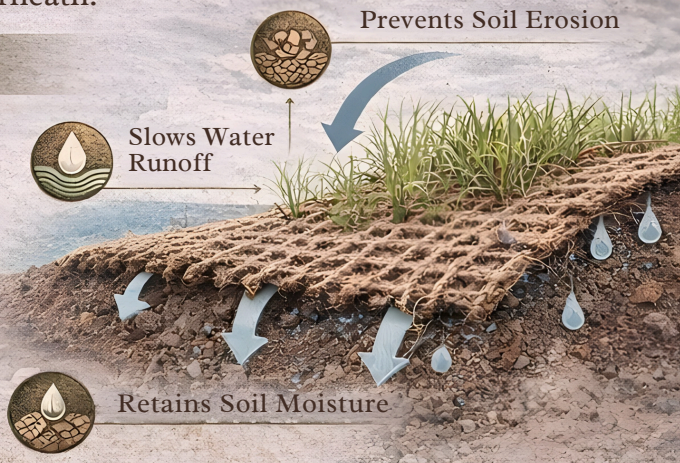


The fibers are woven into an open mesh structure that allows vegetation to grow through the mat. while stabilizing the soil underneath.

How They Work

The mat forms a breathable protective layer that:

- ✓ Reduces soil erosion caused by rainfall
- ✓ Slows surface water runoff
- ✓ Retains soil moisture
- ✓ Protects seeds during germination
- ✓ Supports long-term vegetation growth



Key Benefits of Soil Erosion Coir Mat



Natural and Biodegradable

Soil Erosion Coir mat are made entirely from **natural coconut fibers.**

- Decompose naturally
- Leave no plastic residue
- Improve soil organic matter

High Durability

Coconut fibers are naturally strong and resistant to environmental stress.
Typical service life:

2-6 years

This ensures soil protection until vegetation is fully established.

Excellent Moisture Retention

Coir fiber retains water while allowing air circulation. This improves:

- Seed germination
- Root development
- Soil microbial activity
- Vegetation success rates

Supports Long-Term Vegetation Growth



Coir vs Jute vs Straw Blankets



Coir vs Jute vs Straw Blankets

Feature	Coir Mat	Jute Mats	Straw Blankets
Material	Coconut Coir Fiber	Natural Jute Fiber	Straw with Netting
Durability	High	Medium	Low
Service Life	2-6 Years	1-2 Years	Less than 1 Year
Moisture Retention	Excellent	Moderate	Low
Rainfall Resistance	Strong	Moderate	Weak
Vegetation Support	Excellent	Good	Moderate



Coir Mat



Jute Mats



Straw Blankets

Because of their durability and strength, coir mats are preferred for long-term erosion control projects.

Applications

Slope Stabilization

Steep slopes are vulnerable to erosion.

Common uses:

- Highway slopes
- Railway embankments
- Construction site slopes
- Hillside landscaping



Riverbank Protection

Coir mats stabilize riverbanks by:

- Protecting exposed soil
- Reducing runoff velocity
- Encouraging vegetation growth







Roadside Erosion Control

Road construction leaves large areas of exposed soil.

Coir mats help by:

- Stabilizing road shoulders
- Preventing sediment runof
- Supporting roadside vegetation

Environmental Benefits

COIROON mats support sustainable land management and environmental restoration.



Key Environmental Advantages

- 100% biodegradable material
- Renewable coconut fiber resource
- Plastic-free erosion control
- Improves soil organic content
- Supports ecological restoration

As the fibers decompose, they naturally integrate into the soil ecosystem. This makes COIROON mats an ideal solution for green infrastructure projects.







Product Range

Product	Density	Typical Applications
COIR MAT	400 GSM	Landscaping, light slopes
COIR MAT	700 GSM	Moderate erosion control
COIR MAT	900 GSM	Drainage channels, steeper slopes
COIR MAT	1200 GSM	Heavy-duty erosion protection
COIR BLANKET	350 GSM	Landscaping, heavy slopes
COIR BLANKET	250 GSM	Landscaping, light slopes

COIROON

Naturally Engineered™ | Natural Ground Reinforcement
Eco-friendly erosion control solutions for civil engineering, landscaping, and infrastructure projects.

+1 519-532-8846 | Joy@coiroon.com | Distribution Opportunities Available

COIROON Product Range

Natural Ground Reinforcement Solutions



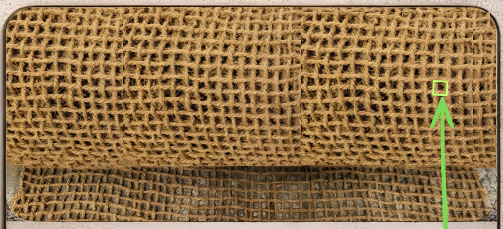
Soil erosion coir mat 400 GSM | 3 cm cap



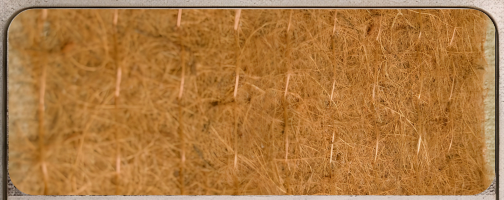
Soil erosion coir mat 700 GSM | 2.5 cm cap



Soil erosion coir mat 900 GSM | 2 cm cap



Soil erosion coir mat 1200 GSM | 1.5 cm cap



COIR BLANKET 350 GSM



COIR BLANKET 250 GSM

Coir Rope





Coco Mat

COIROON Naturally Engineered™