

# Coastal Erosion Information and Products

<http://www.erosionpollution.com/coastal-erosion.html>

## Coastal Erosion

Coastal Erosion is a natural occurrence on exposed and sheltered coasts alike. **Currents, waves, and sea level changes directly affect erosion on the coast.** While we as humans can contribute to the problem, we also can do our part to prevent it and restore our shorelines.

### Products to Help with Coastal and Shoreline Erosion Control

Depending on your area, there are several different products that may be able to help with coastal area. Some of the most commonly used products in coastal areas have included the following:



**Geotextiles**

[Geotextiles](#): For many coastal erosion control applications, the installation of a seawall or barrier may be necessary. To help with stabilization and filtration applications, geotextiles are often placed underneath the wall to help provide a firm area for stabilization. The two main types of geotextiles include:

[Woven Geotextiles](#)  
[Nonwoven Geotextiles](#)



**Breakwater Tubes**

[Breakwater Geotextile Tubes](#): Another common choice for coastal erosion control are the breakwater geotextile tubes. These tubes are designed to help stabilize large coastal areas by helping to retain sand and sediment inside the tube. Tan colors are available for a more natural look.



[Natural Coir Product](#): We also offer several natural fiber products that can help with erosion control. Typical products include the following:

Coir Logs  
Erosion Control Mats  
Straw Blankets

### Coir Logs



Call our Granite Environmental team at **(+1) 772-646-0597** or toll free at **(888) 703-9889** with any questions you may have. [Request a price quote](#)

## Erosion Control Information:

As we consider erosion control solutions, it becomes difficult to know which one is best. **Beach Restoration is simple but expensive and only temporary.** It can leave a footprint where the new sand is harvested. **Seawalls and jetties create larger waves and disrupts along-coast currents.** There are solutions that are more permanent and better for the environment.



[Coir](#) is natural coconut fiber and protects the soil while plant roots and shoots colonize and stabilize. Coir comes in mat, block, log, and wattle form and provide a **semi-permanent and natural solution** for erosion.

[Geotextiles](#) are permeable and impermeable engineered fabrics that provide a **permanent solution** for erosion. When used with soil and rock, they can **separate two soil types, filter water, and reinforce the ground.** To learn more, visit our [woven geo textile](#) and [non woven fabric](#) web pages.

## Shoreline Erosion Causes:

- **Longshore Drift:** Sediments are transported along a coast at an angle to the shoreline. This occurs most frequently in the surf zone.
- **Attrition:** Waves cause loose pieces of rock debris (scree) to collide causing corrasion or abrasion (like sandpaper).

- **Corrasion:** Waves break on the shore or cliff face, which slowly erodes it.
- **Corrosion:** The sea's pH levels can directly affect erosion. If the level is below 7.0, erosion is more likely to occur.
- **Hydraulic Action:** Wave strike a shore or cliff face and compresses air into the cracks. The air then exerts pressure causing splintering and further cracking.



## Become an Erosion Control "Expert"!

**Don't let your knowledge erode! Soak up the ins and out of erosion control and the geotextile products used.**

### **Master the Specifics of Geotextiles:**

[Geotextile Fabric Overview](#) • [Geotextile Material Selection](#) • [Geotextile Application](#) • [Geotextile Types](#) • [Skit Film](#) • [Geotextile Functions](#) • [Geotextile Testing](#) • [Geotextile Comparison](#) • [Geotextile Installation](#) • [Geotextile Certification](#) • [Geotextile DOT Information](#) • [Geotextile AASHTO Information](#) • [Geotextile Fabric for Dirt Roads](#)

**Questions about Coastal Erosion Products?** Our Granite Environmental sales team would be happy to support you.

Call **(+1) 772-646-0597** or toll free at **(888) 703-9889** to discuss your coastal erosion requirements or click on the chat button below for immediate response within our office hours (mon - fri, 8 am - 5 pm EST).