



What sets Geotube® technology apart from the competition is substantial. Cost effective, durable, flexible, and easy to install, these are staples that Geotube® customers rely on for their projects. TenCate's™ Geotube® geocontainment technology has provided innovative geosynthetic solutions in dewatering as well as shoreline protection and marine structure construction markets.

For dewatering applications, specially designed GT500 filtration fabric delivers high solids retention at high flow rates. The GT1000MP polyester and GT1000M polypropylene are specially designed for shoreline protection applications. GT1000MP fabric is engineered to retain fine sands for maximum retention, while the GT1000M is a robust fabric designed for high UV resistance in exposed locations. Our specially designed fabrics have superb strength retention even after hundreds of hours of UV exposure.



Geotube® GT500 dewatering fabric

The twisted, polyester sewing threads used on Geotube® fabric are UV resistant with a heavy Denier. Patented circumferential seaming is utilized for maximum seam strength, which limits the forces on seams during filling. In fact, with circumferential seams, the stress is going *with* the seam, not against it. Since there is less stress on the seams, higher fill heights and greater capacity for dewatered volumes per cubic foot at a higher Factor of Safety can be achieved.

With these advances in fabrics and seams, Geotube® dewatering technology can reduce the volume of waste materials as much as 90 percent, and can even be used to dewater hazardous materials. Geotube® dewatering technology has helped project



The Geotube® container will serve as the core of a sand dune when covered with sand and vegetated thus serving as a protection against storm surges.



Geotube® units feature our patented circumferential seaming for maximum seam strength.

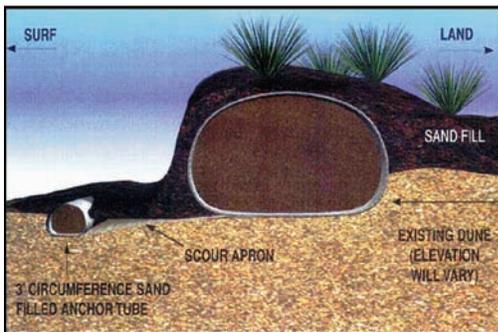
managers to meet the clean water objectives set forth by the EPA, all while saving money over previous dewatering methods.

Geotube® technology is also utilized to protect and prevent damage of shorelines. In fact, one of the advantages of Geotube® geocontainment technology is that a beach's original slope can be recreated. So while protecting and improving the aesthetics of a shoreline, a natural seaming habitat is provided to aid wildlife. Geotube® technology has also been used in many areas for rebuilding wetlands habitats for birds and other species.

Additional marine structure applications are breakwaters, jetties, diversion dikes, underwater structures, and island creation.

A Geotube® representative can work with an organization to administer a small-scale test to evaluate material and to provide suggestions as to the best dewatering or shoreline protection approaches.

To learn more, call 1-888-795-0808 or visit [www.geotube.com](http://www.geotube.com).



## How Geotube® Dewatering Technology Works

Dewatering with Geotube® technology is a three-step process.

In the **confinement** stage, the Geotube® container is filled with dredged waste materials. The Geotube® container's unique fabric confines the fine grains of the material.

In the **dewatering** phase, excess water simply drains from the Geotube® container. The decanted water is often of a quality that can be reused or returned for processing or to native waterways without additional treatment.

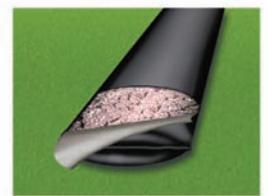
In the final phase, **consolidation**, the solids continue to densify due to desiccation as residual water vapor escapes through the fabric. Volume reduction can be as high as 90 percent.



Step 1: Filling



Step 2: Dewatering



Step 3: Consolidation

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