


GEOTUBE®

Marine and dewatering solutions





GEOTUBE® dewatering and marine technologies are engineered to provide innovative solutions for environmental remediation and marine protection structures.

Solmax offers the widest range of engineered fabrics and composites for the fabrication of GEOTUBE® systems. These engineered fabrics are designed to provide abrasion and UV resistance while also providing strength and durability for the most demanding site conditions.



GEOTUBE® DEWATERING SOLUTIONS

Globally, **GEOTUBE®** is one of the most trusted and effective dewatering technologies available. This technology provides an efficient means to reduce sludge volume making removal and disposal easy. In addition to offering a low-cost solution, versatile **GEOTUBE®** containers are customizable to meet a range of sizes, volumes, and space requirements.

Stages of dewatering



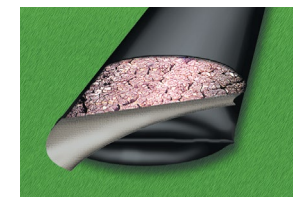
Filling

Sludge is pumped into the **GEOTUBE®** container. Environmentally safe polymers are added to the sludge, which makes the solids bind together and water separate.



Dewatering

Clear effluent water simply drains from the **GEOTUBE®** container. Over 99% of solids are captured, and clear filtrate can be collected and recirculated through the system.



Consolidation

Solids remain in the bag. Volume reduction can be up to 90%. When full, the **GEOTUBE®** container with its contents can be deposited at a landfill, or the solids removed and land-applied when appropriate.

FEATURES AND BENEFITS

Versatile design

- Sized for large or small scale applications
- Can be stacked to optimize space
- Customized containers geometry to fit any laydown area
- Once dewatering is completed, solids can be removed or capped in place

Efficient installation

- Provides a quick mobilization and start-up
- Can be placed in mobile roll-off box for easy transportation and disposal
- Requires less manpower and capital expenditure

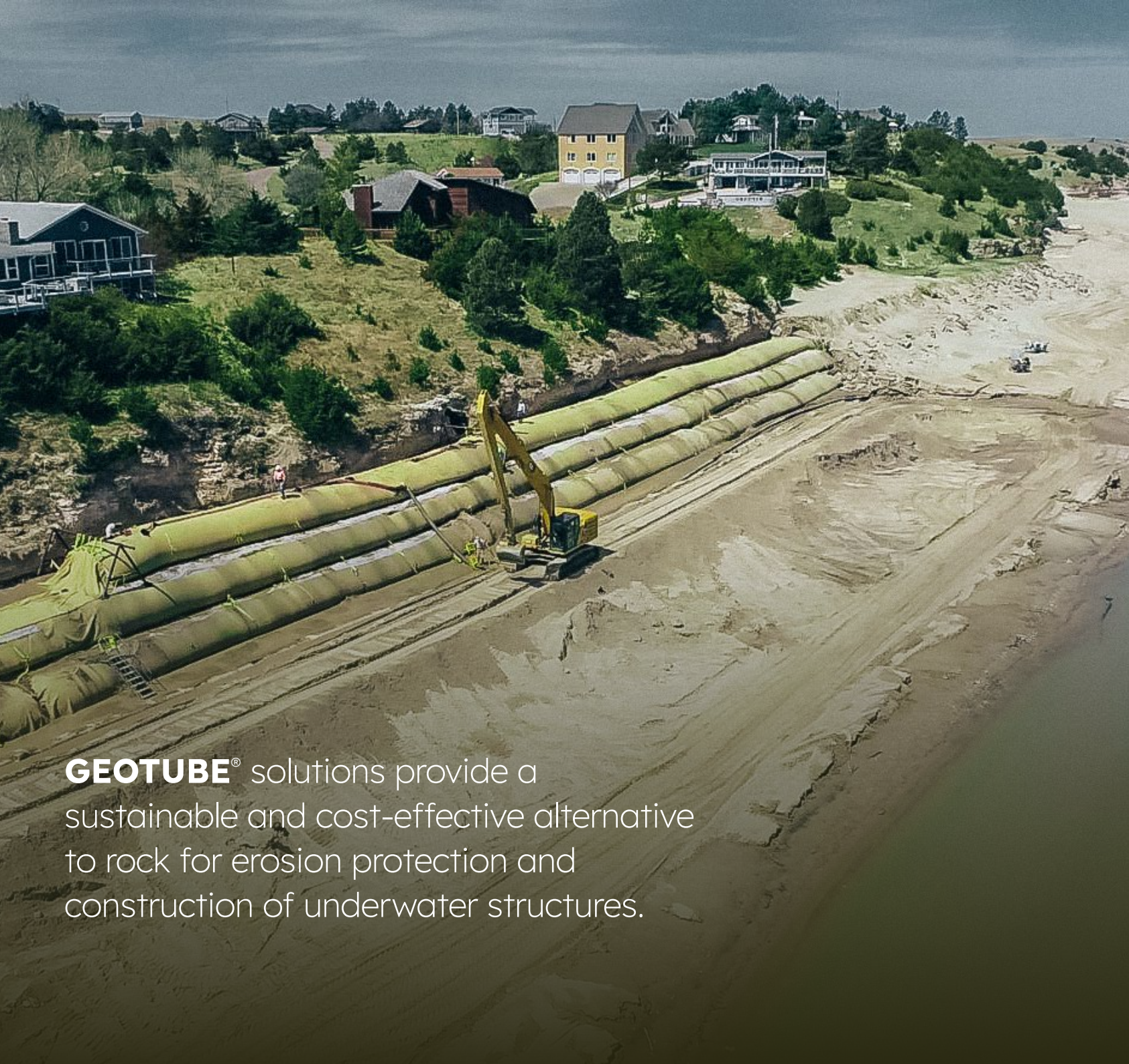
Performance

- Provides dewatering and containment in one operation
- Fast and cost effective dewatering solution
- Effectively contains hazardous materials
- Significantly reduced volumes, reducing transportation and disposal costs
- Prevents airborne particle contamination
- Can be used in a continuous process
- **GEOTUBE®** units can be used to expand embankments and berms



APPLICATIONS

- Environmental remediation
- Environmental dredging
- Mining and mineral processing
- Energy – fly ash and bottom ash
- Water and wastewater treatment
- Agriculture
- Aquaculture
- Pulp and paper



GEOTUBE® CONTAINMENT SOLUTIONS

GEOTUBE® marine technologies are a proven, cost-effective method for a variety of shoreline protection and marine structure projects. Developed using input from the U.S. Army Corps of Engineers, this technology has been used to create sand dune cores, wetland habitats, jetties, dikes, groins and underwater structures. In these applications, **GEOTUBE®** units provide permeable, mass-gravity structures that are durable and resistant to erosion.

GEOTUBE® solutions provide a sustainable and cost-effective alternative to rock for erosion protection and construction of underwater structures.

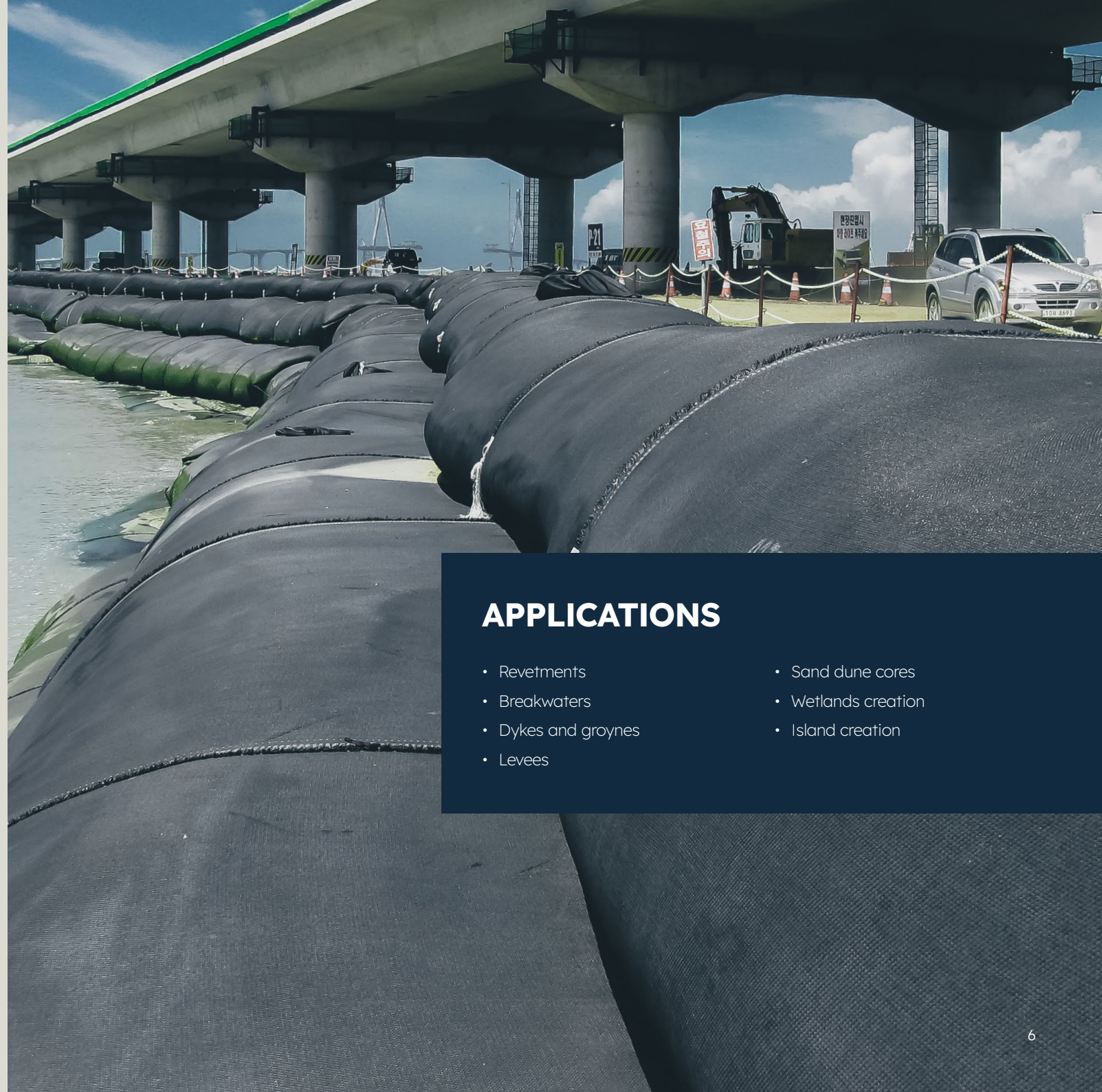
FEATURES AND BENEFITS

Versatile design

- Units can be customized to various circumferences and length to fit any project size
- Can be stacked to achieve design height
- Can be installed above, at, or below water level
- Units can be filled in place with local material
- Installation can be temporary or permanent

Performance

- Dissipates wave action to reduce shoreline erosion and encourage beach replenishment
- Restoration of natural habitats
- Protects shoreline during severe storms
- Wetland restoration and land reclamation
- Engineered with UV protection for uncovered applications
- Enhanced durability to withstand abrasion and impact



APPLICATIONS

- Revetments
- Breakwaters
- Dykes and groynes
- Levees
- Sand dune cores
- Wetlands creation
- Island creation

About Solmax

Solmax is a world leader in sustainable construction solutions, for civil and environmental infrastructure. Its pioneering products separate, contain, filter, drain and reinforce essential applications in a more sustainable way – making the world a better place. The company was founded in 1981, and has grown through the acquisition of GSE, TenCate Geosynthetics and Propex. It is now the largest geosynthetics company in the world, empowered by more than 2,000 talented people. Solmax is headquartered in the province of Quebec, Canada, with subsidiaries and operations across the globe.

Uncompromised quality

Our products are manufactured to strict international quality standards. All our products are tested and verified at our dedicated and comprehensive laboratories which maintain numerous accreditations. We offer our partners a wide scope of testing according to published standards to ensure products delivered to sites meet specified quality requirements.

Let's build infrastructure better

Solmax is not a design or engineering professional and has not performed any such design services to determine if Solmax's goods comply with any project plans or specifications, or with the application or use of Solmax's goods to any particular system, project, purpose, installation, or specification.

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SOLUTIONS WE SUPPLY

GEOSYNTHETICS

Filter Fabrics

Stabilization Fabrics

Geogrids

- Road Grids
- Wall Grids
- Slope Stabilization

Specialty Fabrics

Composite Geomembranes

- GCLs, PVC, HDPE, LLDPE, EPDM, Granular Bentonite

SEDIMENT CONTROL

Inlet Protection

- Grated Inlet, Curb Inlet, Area Inlet Protection

Ditch Checks

- Triangle Silt Dike
- GeoRidge

Perimeter Protection

- High and Low-Porosity Silt Fence, Straw Wattles, Silt Socks
- Safety Fence

Flocculants & Water Treatment

- Polymer-Based & Natural Flocculants

Sediment Basin Skimmers

Dewatering Bags

Trackout Control

- FODS
- Rumble Grates

Turbidity Curtains

EROSION CONTROL

Basic Hydraulically Applied Mulches

- Wood
- Paper
- Blends
- Straw

High-Performance Hydraulically

Applied Products

- BFM
- FGM
- Additives & Tackifiers

Temporary Erosion Control Blankets

- Coir & Jute Mat/Nettings
- Short-Term ECBs
- Extended-Term ECBs

Permanent Erosion Control Blankets

- Turf Reinforcement Mats
- HP-TRMs
- Anchor Reinforced Vegetation System

Structural BMPs

- Transition Mats
- Geoweb Cellular Confinement
- Composite Vegetated Armor System
- Flex MSE Vegetated Wall System
- Articulated Concrete Block
- Gabions
- Grout-Filled Geotextile Mats

Vegetation Establishment

- Native Seed & Turf Seed
- Fertilizers
- Organic Soil Additives
- Stratavault Soil Cells

STORMWATER MANAGEMENT

Water Quality

- Inlet Filter Boxes
- Pre-Treatment Chamber
- Nutrient Separating Baffle Boxes
- High-Flow Biofiltration Media
- Hydrodynamic Separators
- Stratavault

Water Quantity

- Modular Underground Storage Systems
- Chamber Detention Systems

Drainage

- HDPE Swale Liner
- Pipe & Fittings
- Drainage Composites
- Strip Drain

Inlet Structures

- PVC
- Drain Basins, In-Line Drains
- Landscape

Permeable Pavers

- Permeable Articulating Concrete Block
- Grass Pavers
- Gravel Pavers
- Concrete Pavers

SPECIALTY

Natural & Synthetic Coir Fiber Logs

Vegetated Reinforced Soil Slopes

Soil Anchors

Root Barrier System

AquaBlok

Muscle Wall

We are full line distributors of construction materials for all project types. Contact us for assistance with a project. From specification and development to installation and completion, we're here to help with all of your site solution needs.

GEOSYNTHETICS | EROSION CONTROL | STORMWATER MANAGEMENT
SEDIMENT CONTROL | REVEGETATION & SOIL AMENDMENTS