
GEOWEB® & GEOTERRA®

SMART EARTH SOLUTIONS FOR THE OIL AND GAS INDUSTRY
Powered by GEOSYSTEMS® technology.

GeoWeb®

Soil Stabilization System

Increases efficiency. Reduces cost. Minimizes environmental impact.

As competition in the energy sector accelerates, oil and gas producers are challenged to operate with the highest efficiency and lowest cost even as they face ever more challenging site conditions. Challenges to their operations include stabilizing access roads, drilling pads, and platforms over soft subgrades in order to reduce the downtime associated with fixing a degraded road or drilling pad.

From the oil sands tundra of North America to the jungles of South America, Presto Geosystems® provides innovative solutions to these challenges with easy-to-deploy systems that increase stability and reduce overall operational costs.

Strengthens Infill Economically

The GeoWeb® system delivers value in areas where available fill is unsuitable as either a temporary or long-term solution. Its network of interconnected cells confines, stabilizes and strengthens infill including local sands and gravels that would otherwise be prone to shifting, rutting or raveling. This strengthening delivers considerable benefits for load support applications supporting vehicles to oil field sites.

Minimal Environmental Impact

The GeoWeb® system also reduces the environmental impact to a site by reducing site disturbance, even in environmentally-sensitive areas. On-site waste fill is often acceptable as a conserving local aggregate supplies and reducing a site’s overall carbon footprint. Sections are manufactured from HDPE, an inert material that does not contaminate or contribute to groundwater issues, and are shipped to a site in compact form, lowering transportation costs.

GeoWeb® System Applications

- Oil Field Site Access Roads
- Transfer Facilities
- Laydown Yards
- Drilling Pads
- Metering Stations

GeoWeb® Application

Access Roads and Drilling Pads over Muskeg and Saturated Clay

A Canadian oil producer employed the GeoWeb® system on its access roads and drilling pads to reduce expensive aggregate and operational maintenance requirements.

Design and construction challenges included supporting heavy loads exceeding 125,000 lbs. (15,000 lbs. wheel loads) over very soft subgrades of muskeg and saturated clay. The solution also needed to be constructible in sub-zero temperatures and hold up to heavy rig and truck traffic even during the spring thaw, which completely degrades what little strength these subgrades have.

Numerous roadways and drilling pads have been built utilizing the Presto GeoWeb® system. All are performing to expectations and the GeoWeb® system reduced typical cross section from 5 ft. (1.5 m) to less than 12 in. (300 mm), saving the customer significant costs and conserving local resources.
GEOTERRA®
CONSTRUCTION MAT SYSTEM

Durable, portable & reusable. Quickly deployed. No infill required.

GEOTERRA® mats are an economical solution as a ground-surface reinforcement layer over soft subgrades, supporting loads for access roads, platforms, helipads and equipment and personnel areas. They offer more design and construction flexibility than other construction mats and can be utilized for either temporary or permanent applications. They can be disassembled, removed and reused as needed. GEOTERRA® mats are especially beneficial when aggregate is not available or too costly to import.

Strength, Flexibility & Safety

GEOTERRA® mats are safer to handle and place as they do not require any heavy equipment. They can be easily constructed to fit any project layout on-site or preassembled off-site. Units are joined together to form an interconnected structural mat that supports typical vehicle and equipment loads.

A high crush strength enables these mats to support even the heaviest wheeled and tracked vehicle loads. Strong, lightweight units reduce transportation costs, especially when deploying to difficult-to-access locations.

Two styles are available to meet your site’s cost and strength demands.

- GEOTERRA® with PADLOC® locking system
- GEOTERRA® GTO with bolt tight system

GEOTERRA® SYSTEM APPLICATIONS

- Oil Field Site Access Roads
- Oil-Drilling Platforms
- Construction Site Access
- Equipment Storage
- Personnel Traffic Zones
- Helipads

GEOTERRA® System Advantages

- Design Flexibility: Compatible with other filter or drain products.
- Construction Flexibility: Can customize mat layout to site needs.
- High-Structural Strength: Supports heaviest loads over soft subgrades.
- Portability & Reusability: Reduces handling, transportation and life cycle costs.
- Extremely Cost-Effective: More economical than other mat systems.
- Light & Safe to Deploy: Reduces on-site injury potential.
- Low Environmental Impact: Convenient reusability, low carbon footprint.

GEOTERRA® APPLICATION

Access Roads and Oil Drilling Platforms in the Jungle

Wet, remote, and sensitive jungle locations challenge oil producers to maintain continuous and strong access to their oil well sites. The producers have turned to Presto’s GEOTERRA® construction mat system to build access roads and oil drilling platforms over the soft soils.

GEOTERRA® mats provide a sturdy working platform for heavy duty drilling operations; when the torrential rains saturate the sensitive subgrade, the permeable and strong GEOTERRA® “picks up the slack” and allows drilling operations to continue uninterrupted.

When the site is no longer active, the mats are disassembled and moved to another site, allowing reclamation with minimal environmental impact. Regulators embrace this low carbon, low impact solution.
**DESIGN SUPPORT**

Regardless of the system that fits your needs, Presto GEOSYSTEMS® engineering support before, during and after construction is second to none. From preliminary design evaluations, to on-site training and installation guidance, we are committed to helping you get it right the first time. Our trained network of distributors and representatives can offer valuable support from a project’s concept through construction.

**CONSTRUCTION ADVANTAGES**

**THE GEOWEB® SYSTEM**

*The total solution that benefits contractors.* We understand the demands and challenges contractors face during construction on oil and gas exploration sites. That’s why the Genuine GEOWEB® system is equipped with the valuable ATRA® Key connection device designed to save time and cost during installation.

**ATRA® KEYS**

*Three times stronger & faster than stapling, saves time/cost on site.* Unique GEOWEB® cell wall slots are designed for connecting sections with ATRA® Keys.

- Only one worker is required with ATRA® Keys vs. two required for stapling operations.

**GEOTERRA® CONSTRUCTION MATS**

*Durable, portable, reusable, eco-friendly, safe.* GEOTERRA® mats deliver advantages over most traditional construction mats as they are strong, yet lightweight, and can be assembled to meet any site layout.

GEOTERRA® mats are safer than traditional heavier mats as they do not require special handling equipment.

**PRESTO GEOSYSTEMS® COMMITMENT** — To provide the highest quality products and solutions.

Presto GEOSYSTEMS® is committed to helping you apply the best solutions for your site requirements. Our solutions-focused approach to solving problems adds value to every project. Rely on the leaders in the industry when you need a solution that is right for your application. Contact Presto GEOSYSTEMS® or our worldwide network of knowledgeable distributors/representatives for assistance.

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**GENUINE GEOWEB® and GEOTERRA® invented and made in the USA.**

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