

PRESTO



MINING INDUSTRY

GEOWEB®

3D Soil Stabilization

Design +
Construction
Resource Package





PRESTO



GEOSYSTEMS®

GEOWEB® 3D Soil Stabilization

Mining Resources

What You Will Find

[Key Mining Applications](#)

[How the GEOWEB® 3D System Works](#)

[Access & Haul Roads](#)

[Access Ramps into Ponds](#)

[Compare 3D GEOWEB® System to 2D Geogrids](#)

[Tailings Protection](#)

[Slope Reclamation](#)

[Environmental Benefits](#)

[Slope Covers for Liners](#)

[Slope Protection Using Waste Rock](#)

[Channels & Stormwater Ponds/Containment](#)

[Free Project Evaluation](#)

[Complete System Accessories](#)

[Get an Estimate](#)

[Contact Us](#)



Support resources for
a successful project.

PRESTO



Better Built Mine Infrastructure

GEOWEB®

3D Soil Confinement

This resource package offers tools & resources to design high-performing, long-lasting mining infrastructure—haul & access roads, embankments, channels and ponds.



Resources
for your project



See More

The Mining Industry's Go-To Solution



PRESTO



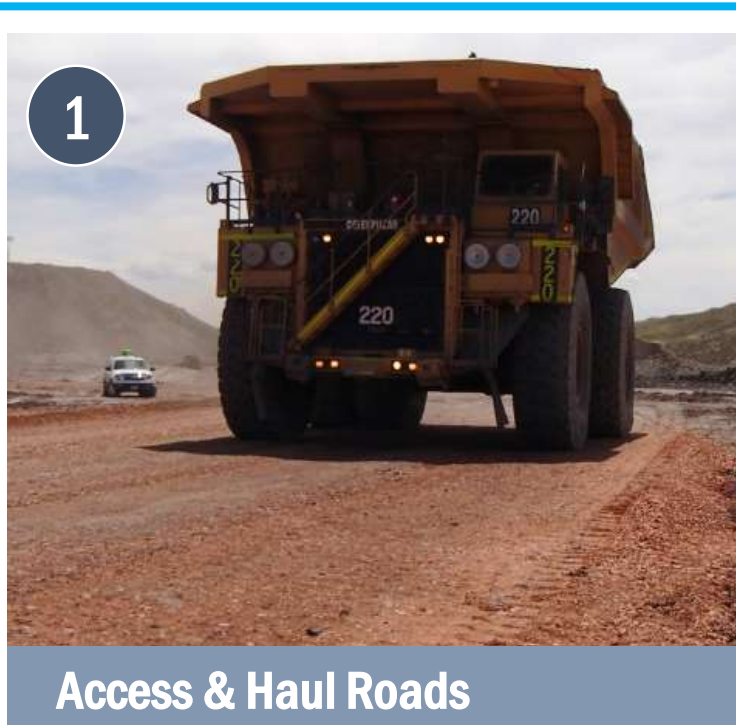
Key Mine Applications

GEOWEB®

3D Soil Confinement

Take the Tour.

See how 3D soil confinement benefits the most challenging soil stability issues in mine applications.



Resources
for your project





PRESTO | **GEOSYSTEMS**[®]

How 3D Soil Confinement

Benefits Rail

Resources
for your project



Strengthens & Transforms Fill

With the 3D GEOWEB[®] system, fill materials are confined and stable—even under the heaviest loading or steepest grades.

The benefits? Higher performance and lower maintenance of haul roads, reclaimed slopes, channels and containment ponds.

- [View the Overview Brochure](#)
- [Visit our Photo Gallery](#)
- [See Project Case Studies](#)





PRESTO | GEOSYSTEMS®

BENEFITS

Delivered by the 3D GEOWEB® System

Resources
for your project



Access & Haul Roads

Stable Driving Surface

3D-stabilized fill offers notable cost savings benefits to your mining operations:

- Faster cycle times (2-3X)
- Virtually eliminates rutting & wash-boarding
- Lowers rolling resistance
 - reduces to 3% vs typical 8% rate
- Improves tire life, reduces tire damage & tire expense
- Higher fuel savings

May use low cost local fill, even sand



See how GEOWEB®
Haul Roads Work>>>





PRESTO | GEOSYSTEMS®

BENEFITS

Delivered by the 3D GEOWEB® System

Resources 
for your project

Access & Haul Roads

Bridges Soft Subgrades in Single Layer

- Supports heavy vehicles over soft ground with a single GEOWEB® layer vs. multiple layers of geogrid.
- Allows access over soft, wet areas in underground mines.



See GEOWEB®
Underground Mine Roads>>





PRESTO



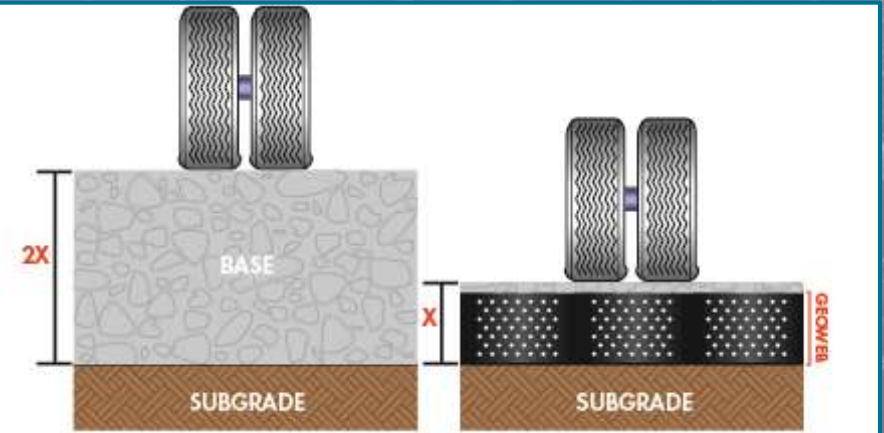
Access & Haul Roads BENEFITS

Reduces Cross Section Thickness

GEOWEB®-confined base delivers structural benefits that reduce cross section thickness by up to 60%.

The improvement results in **significantly less installation and rehabilitation costs.**

Up to 60%
Less Cross
Section



BENEFITS

Delivered by the 3D GEOWEB® System

Resources 
for your project

Access Over Liners

Driving Ramps into Ponds

- Creates stable ramp over liner system to access evaporation ponds.
- Protects the liner from damage caused by large loaders & dump trucks required to remove accumulated sediment from the ponds.

See a Western US
Evaporation Pond Project>>



May use
on-site mine
waste rock



PRESTO

GEOSYSTEMS®



Site Access & Haul Roads

See why the 3D GEOWEB system outperforms 2D geogrids

COMPARE

GEOWEB 3D Stabilization to 2D Geogrids>>



BENEFITS

Delivered by the 3D GEOWEB® System

Resources 
for your project

Tailings Protection

Mine Waste Containment & Storage

- GEOWEB® confinement performs as horizontal surcharge cover over saturated mine tailings.
- Allows applying vegetation over liner system on steep slopes.
- Stabilizes aggregate with smaller, lower cost D₅₀ stone.

See Moon Creek
Tailings Project >>



PRESTO



Resources
for your project 

See GEOWEB® 3D Product in Action

[Visit our Video Gallery](#)

[See Mining Case Studies](#)

[See Project Photos](#)

Watch the WEBCAST
Unpaved Roads >>





PRESTO | GEOSYSTEMS®

BENEFITS

Steep Slope Rehabilitation & Erosion Control

Resources 
for your project

Slope Reclamation

Remediation of Cut + Fill Slopes

Protect and stabilize vulnerable open pit cut slopes and roadway embankments with the GEOWEB® 3D system.

- Allows steeper slopes to be constructed (>45°).
- Solves soil erosion and slope-surface stability problems not possible with 2D planar systems.



BENEFITS

Delivered by the 3D GEOWEB® System

Resources
for your project



Slope Reclamation

Lower Environmental Impact

- With permeable topsoil/vegetation or aggregate fill, GEOWEB® slopes infiltrate water at the point of contact.
- Low environmental impact by limiting stormwater runoff, soil loss, and impacts to downstream waterways.

See Open-Pit Mine Slope
Reclamation Project >>



LEARN MORE >>

PRESTO

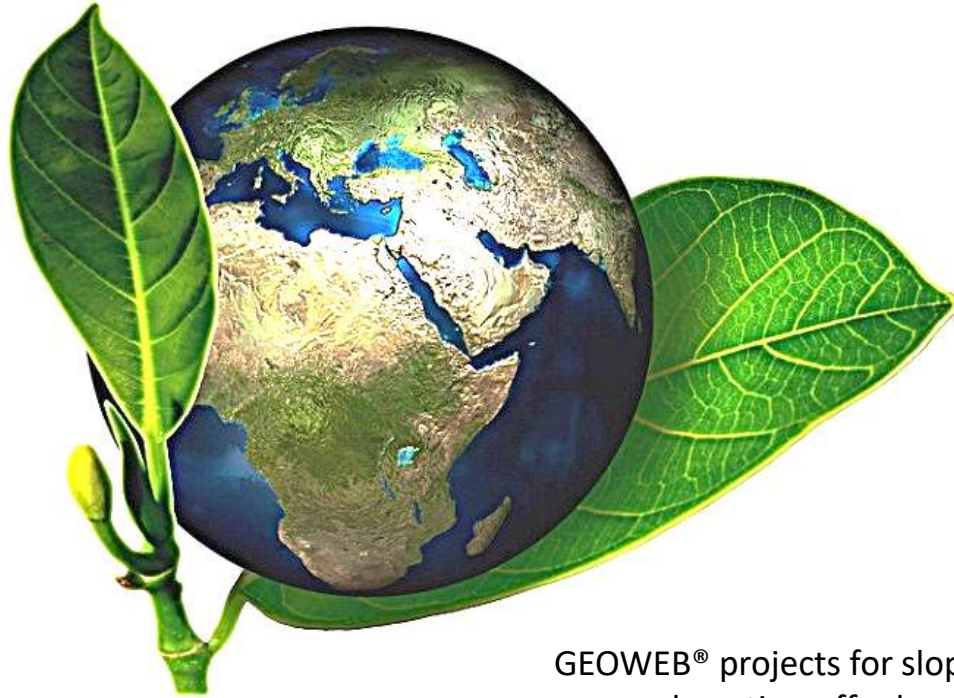


Design Resources
for your project 

Slope Reclamation

Environmental Benefits

[Download the Green Sheet >>](#)



GEOWEB® projects for slope reclamation offer lower environmental impact than alternative solutions.



Energy Use



Resource Savings



Land Use



Water Benefit



BENEFITS

Delivered by the 3D GEOWEB® System

Resources
for your project



Slope Covers

Protection to Impervious Liners

- Protect pond & tailings liners from damage and environmental degradation with GEOWEB® 3D covers.
- Tendoned anchoring system secures 3D cover system without penetrating anchors.
- Supports all infill types—vegetation, aggregate & concrete.



See Soil Cover
Failure & Slope
Repair Project >>



LEARN MORE >>>

BENEFITS

Delivered by the 3D GEOWEB® System

Resources 
for your project

Deep Erosion Protection

Use of Waste Rock

- Use on-site waste rock for no-cost, no-maintenance, 3D deep slope erosion protection.
- GEOWEB® sections are efficient to deploy—and fast to install by local laborers.

See Use of On-Site Rock
Mine Slope Cover Project >>



LEARN MORE >>>

PRESTO

GEOSYSTEMS®



Resources
for your project



Drainage Channels BENEFITS

Stormwater & Wastewater Control Drainage & Conveyance Channels

Construct GEOWEB® drainage and diversion channels to convey stormwater across tailings on mine sites.

- Use no-cost, on-site waste aggregate
- Concrete for hard-armored protection of higher velocity, continuous flows

See Mine Channel Project
Using On-Site Rock>>



PRESTO

GEOSYSTEMS®

Containment Basins BENEFITS



Process Ponds

Mine Tailings Ponds & Storage

Protect critical liners in solution/ evaporation ponds, and stormwater/ tailings storage containment basins with a hard-armored system.

Prevent puncture & environmental degradation with the tendoned GEOWEB® 3D liner cover.

See Process Pond Slope
Cover Project>>



PRESTO

GEOSYSTEMS®

How is it Designed?

Resources
for your project



Let Us Evaluate Your Project

Your site has problems.

Soft ground. Poor drainage. Heavy loading. Limited road building resources. Vulnerable slopes. Environmental regulations & concerns.

How can we help?

Arrange a meeting with our engineers to evaluate the feasibility of our solutions to meet your site's unique challenges.

Email info@prestogeo.com to request a project evaluation.

Request Free Project
Evaluation>>



Poor subgrade.
Soft ground.
Poor drainage.

Environmental
concerns.
Steep cut slopes.

Heavy loading.
Limited road building
resources.



PRESTO | **GEOSYSTEMS®**

How is it Installed?

Installation Training

Our experienced technical staff supports rail owners with pre-construction training and construction oversight.

Waste no time on site.

Let our experienced staff train your crews—keeping your operations moving efficiently and your costs down.

Email info@prestogeo.com to request construction training & site support.

Request Technical Meeting & Presentation>>



Resources
for your project





PRESTO | GEOSYSTEMS®

Is Installation Weather Dependent?

Resources
for your project 

All Weather Material

GEOWEB® projects are installed in extreme temperatures and weather--from the coldest to the hottest regions of the world.

Rain or snow—keep your crews working through any weather condition.



How can we help with
Your Next Mine Project?



PRESTO

GEOSYSTEMS®

Resources
for your project



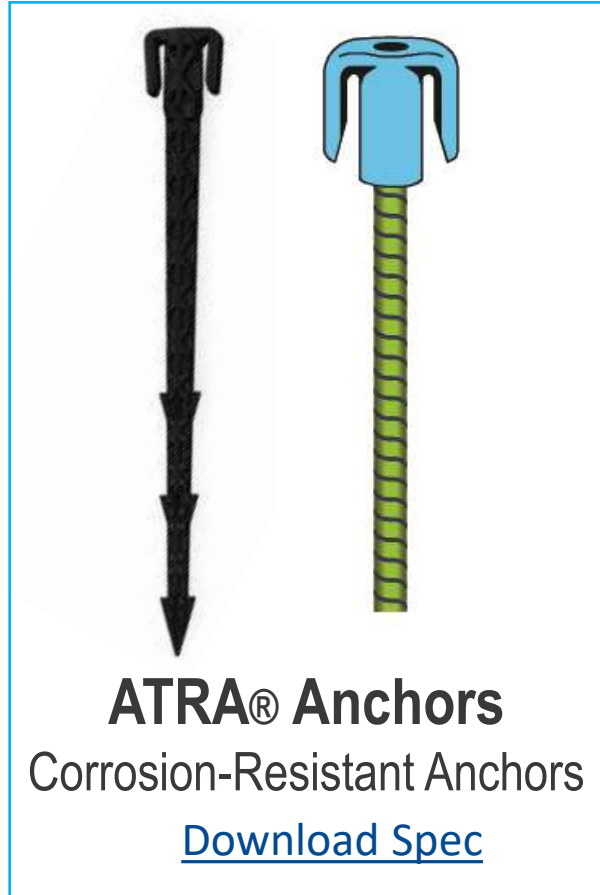
Difference Makers. Fast Install Accessories & Tools.



ATRA® Keys

Fast Section Connection

[Download Spec](#)



ATRA® Anchors

Corrosion-Resistant Anchors

[Download Spec](#)



ATRA® Drivers

Fast Anchor Driving Tool

[Download Spec](#)



PRESTO

GEOSYSTEMS®



Fastest Way to Connect GEOWEB® Sections



ATRA® Keys

Fast & Efficient Connection

Faster than Stapling & Non-Corrosive

Side to side and end to end connections



LEARN MORE



ATRA® Keys

Resources
for your project



3X Faster
than Stapling
Operations



PRESTO

GEOSYSTEMS®



ATRA® Anchors & Drivers

Corrosion-Resistant Anchors

Speed Stakes & Glass-Fiber Reinforced

Strongest hold-down; most secure cell wall connection.

LEARN MORE



ATRA® Anchors & Drivers



10X
Faster
Driving
Tool

than sledge
hammering





PRESTO

GEOSYSTEMS®

Let Our Knowledge Work for You

Resources
for your project



40+ Years Experience

Put our Experience to Work on Your Project

The GEOWEB® system is the original—and most advanced geocell on the market. We continue advancing the technology through research and development to make better solutions that benefit for your project.

Let our knowledge & experience help you solve your mine site problems.





PRESTO | **GEOSYSTEMS®**

Your Project is Important. See How We Can Help.

Resources
for your project



THE PRESTO ADVANTAGE

See how our advanced, adaptable geocells, porous pavers and mats put your project on track for success, and keeps your projects on time and on budget.

[WATCH THE VIDEO](#)



What is the Price? Get an Estimate

Contact our engineers who will work with you to provide a price estimate.

Complete our Online Form
[Get a Quote](#)

Resources
for your project





PRESTO

GEO SYSTEMS®

GOWEB®

3D Soil Stabilization

Build with Certainty.

Get answers to your questions and help before, during and after construction.

Rely on our experience, tools & resources to help you **get in and out of sites faster—and to build safely!**



**Certainty and Peace of Mind—
from project start to finish.**

Presto Geosystems: 1-920-738-1328 E: info@prestogeo.com

Soiltec GmbH: EU Headoffice: +49 4202 76700 | geosystems@soiltec.de