PRESTO | GEOSYSTEMS®

STRENGTH. FROM THE GROUND UP.

Since 1979

MINING INDUSTRY

GEOWEB®

Soil Stabilization System

Design + Construction

Resource Package









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GEOWEB® 3D Soil Stabilization

Mining Resources

What You Will Find

- Key Mining Applications
- How the GEOWEB 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



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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.



See More

The Mining Industry's Go-To Solution

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Key Mine Applications

GEOWEB®

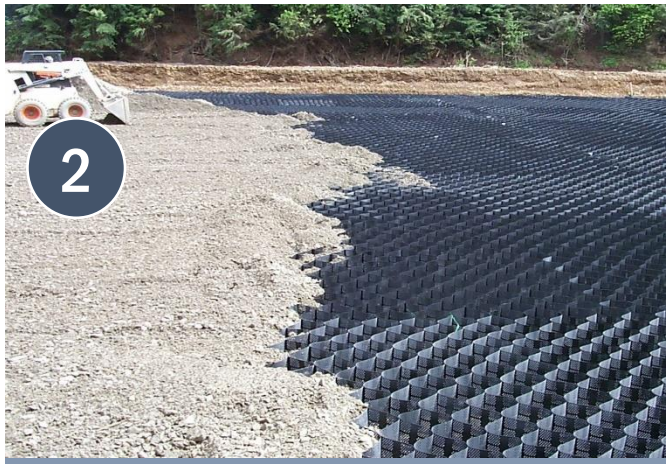
3D Soil Confinement

Take the Tour.

See how 3D soil confinement benefits the most challenging soil stabilization issues in mining applications.



Access & Haul Roads



Tailings Protection



Slope Reclamation



Channels & Basins

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How 3D Soil Confinement

Benefits Mining

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
- Plan Your Project





BENEFITS

Delivered by the 3D GEOWEB® System

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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 and wash-boarding
- Lowers rolling resistance
  - reduces to 3% vs typical 8% rate
- Improves tire life, reduces tire damage and tire expense
- Higher fuel savings



See how GEOWEB Haul Roads Work >>

BENEFITS

Delivered by the 3D GEOWEB® System

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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 >>





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Access & Haul Roads
BENEFITS

Reduces Cross-Section Thickness

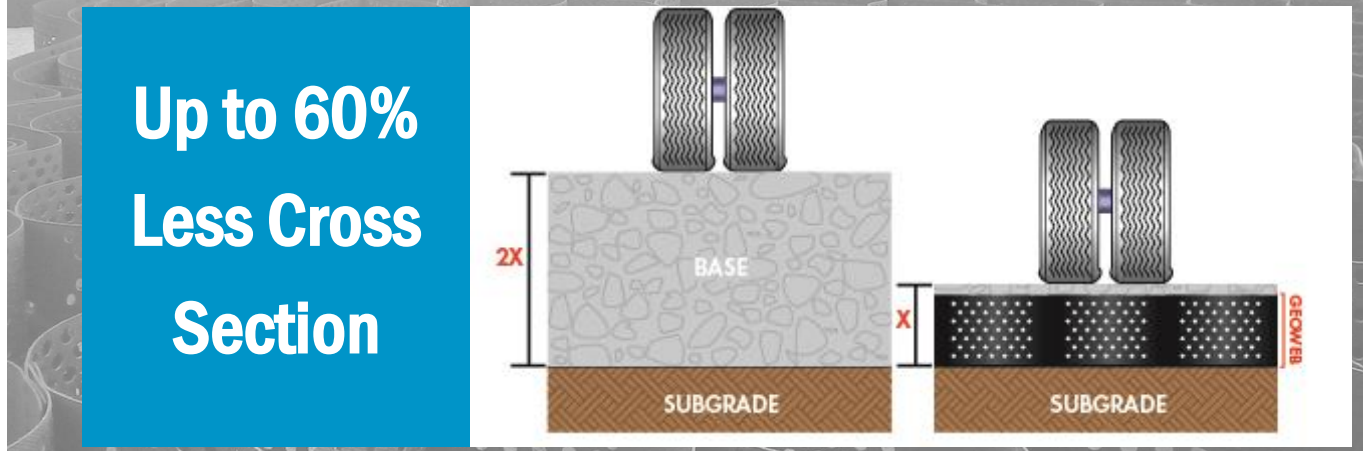
GEOWEB-confined base delivers structural benefits that reduce cross section thickness by up to 60%.

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

Plan Your Own Projects

Project Planning Portal

PRESTO GEO P3



BENEFITS

Delivered by the 3D GEOWEB® System

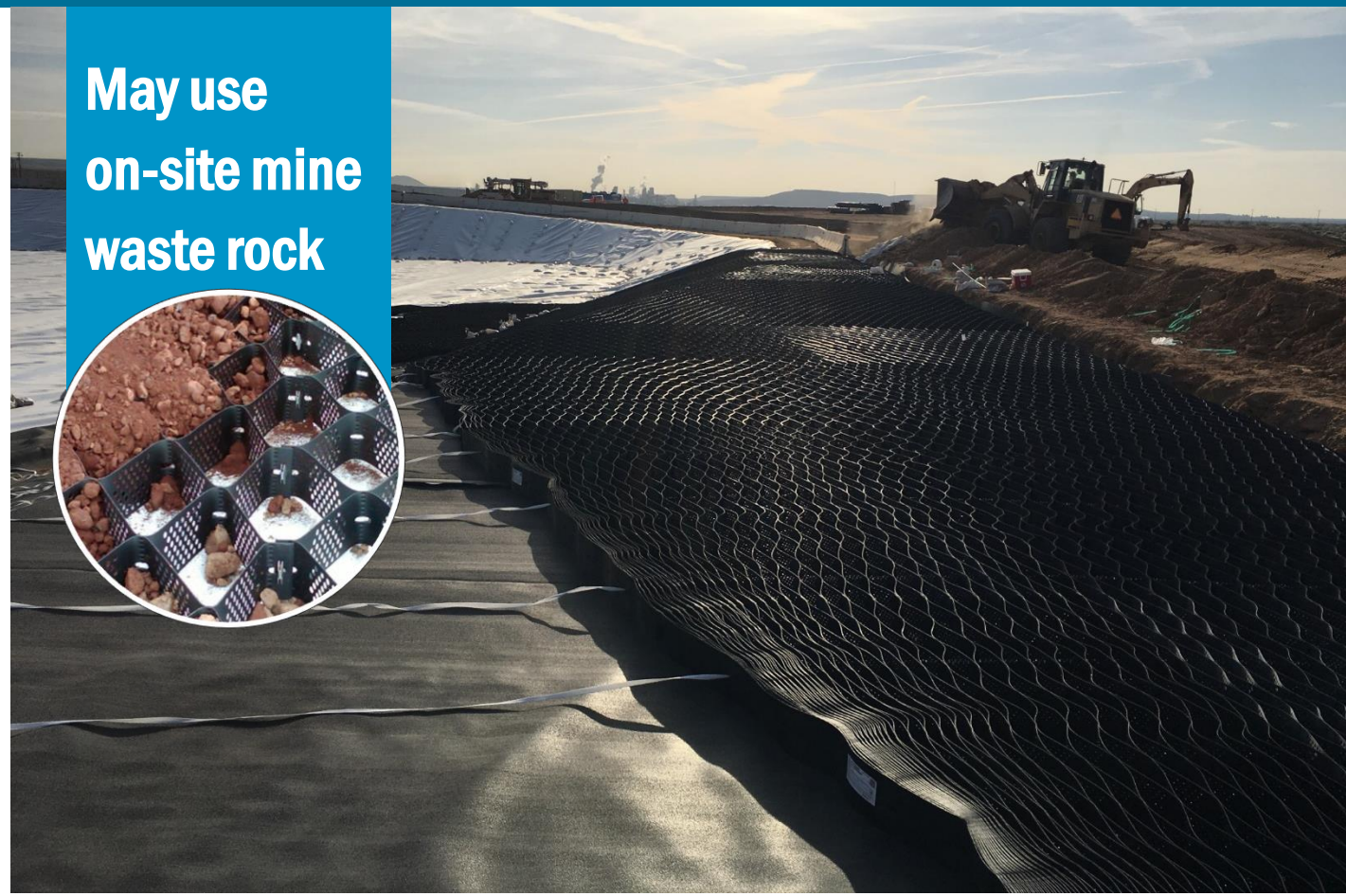
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Access Over Liners

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 >>



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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

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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 D_{50} stone.



See Moon Creek Tailings Project >>



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See GEOWEB® 3D Product in Action



[Visit our Video Gallery]

[See Mining Case Studies]

[See Project Photos]



Watch the Mining WEBINAR >>

BENEFITS

Steep Slope Rehabilitation & Erosion Control

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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.

LEARN MORE



BENEFITS

Delivered by the 3D GEOWEB® System

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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 >>

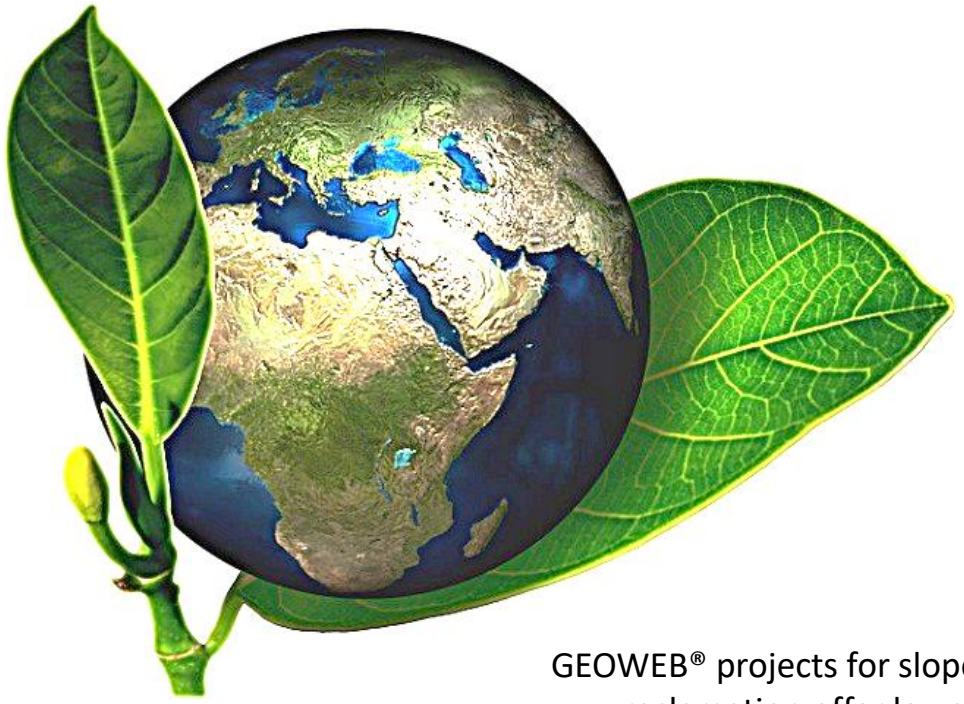


LEARN MORE

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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

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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

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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 at Mine Slope Cover Project >>









LEARN MORE

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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 >>



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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 >>



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How is it Designed?

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.

Request Free Project Evaluation >>



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How is it Installed?

Installation Training

Our experienced technical staff supports mine owners with pre-construction training and construction oversite.

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>>







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Is Installation Weather Dependent?

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.





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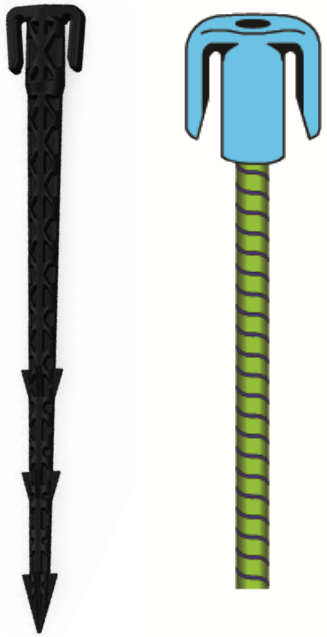
Difference Makers. Fast Install Accessories & Tools.



ATRA® Keys

Fast Section Connection

Download Spec



ATRA® Anchors

Corrosion-Resistant Anchors

Download Spec



ATRA® Drivers

Fast Anchor Driving Tool

Download Spec

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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



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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

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Let Our Knowledge Work for You

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.

LEARN MORE



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Your Project is Important. See How We Can Help.

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

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3D Soil Stabilization System

Build with Certainty.

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

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

