

THE GEOSOURCE UPDATE

Geosynthetics | Erosion & Sediment Control | Stormwater Management | Hardscapes

PROJECT HIGHLIGHT

GEOWEB® Load Support System Used for Ballast Reinforcement

Problem: The contractor had to repair a section of railroad and only had a track shutdown window of 48 hours to complete the work. They had replaced ballast in this section before and still had settlement issues, so they needed a better solution that was quick to install.

Solution: They were going to rebuild the section and use asphalt under the track, but they went with GEOWEB for speed and control of the project timeline — no waiting on asphalt plants or trucking.

Mirafi®180N geotextile was laid down first, used as the base to provide separation and subsurface drainage. This ensures long-term success by maintaining the integrity of the aggregate added into the geocells.

The Presto GEOWEB® Load Support System, added on top of the geotextile, confines the infill. This prevents lateral movement of the aggregate, locking it in place, and provides a stable base that can support dynamic, heavy loads.

Results: The installation was completed under budget and on time. The GEOWEB was quickly installed and extremely effective in stabilizing the railroad track subgrade.

Studies at TPCI and Oregon State University substantiated the GEOWEB system's benefits to the ballast layer — **reducing settlement and track displacement under heavy freight loading** over very soft subgrades. University of Kansas SmartRock testing also revealed a significant reduction in ballast abrasion, movement and rotation, **resulting in extended ballast life.**



UPCOMING WEBINARS

Porous Pavement Webinar

October 4th, 2023 | 12:30pm-1:30pm CST

[REGISTER HERE](#)



Join Bill Murphy, P.E. & Sam Justice, P.E. from Presto Geosystems as they discuss porous pavement solutions. Today's increasingly stringent stormwater regulations continue to create the need for stormwater management. The preferred method is to retain the stormwater on-site rather than having it move off-site through overland flow or into storm sewers. Typical solutions—retention or detention ponds—are expensive to construct, occupy valuable land, require significant maintenance, present safety hazards, and are unattractive nuisances. An alternative solution is to reduce the amount of impermeable surface on the site. Hard-surface (asphalt and concrete) porous pavements are expensive and can be very difficult and time-consuming to install. Rigid and flexible plastic porous pavement systems provide a low-cost, easy-to-install surface designed to handle the most demanding load requirements. The porous pavers from Presto Geosystems can have a vegetated or aggregate infill, depending on your project needs.

Concrete Canvas Webinar

November 8th, 2023 | 12:30pm-1:30pm CST

[REGISTER HERE](#)



Join Bill Murphy, P.E. & Davide Invernizzi to learn more about Concrete Canvas®. Designed specifically for erosion control and containment applications, Concrete Canvas® (CC) products are part of a revolutionary class of new, innovative materials called Geosynthetic Cementitious Composite Mats (GCCMs). CC is a flexible, concrete-filled geosynthetic that hardens on hydration to form a thin, durable, fiber-reinforced and waterproof concrete layer. Concrete Canvas® can be used in a variety of ways including, as a low-carbon solution for renewable energy projects, as an alternative solution to standard traditional concrete lining, or as a hard-armored impermeable solution for engineering and infrastructure applications. We'll cover CC product details, benefits, applications, installation methods and more in this webinar.

PRODUCT PROFILE

InstaTurf - Simulated Turf Structural Erosion Control

InstaTurf is a soft armoring erosion control product consisting of a green, simulated turf backed with an engineered geotextile filtration fabric.

InstaTurf is a vegetated alternative to rock rip rap and shows great results at a fraction of the cost. It protects against erosion and scouring while helping grow and reinforce natural vegetation. Additionally, vegetated channels support stormwater filtering, infiltration and shear stress reduction.

InstaTurf has many applications and is an optimal solution for high-flow channels, spillways, shorelines, drip lines and other critical areas that are traditionally difficult to vegetate.

InstaTurf provides an answer for those looking for high-performance erosion control and an aesthetically pleasing finished grass look upon installation. InstaTurf mimics the look of grass before natural vegetation is established while providing immediate rock-like erosion protection.



EMPLOYEE SPOTLIGHT



Adam Litteken

Technical Sales Representative at ASP Enterprises - St. Louis

Adam Litteken has been a Technical Sales Representative at ASP Enterprises for six years. His extensive product knowledge and willingness to do whatever it takes to help customers make him an asset to our team. Adam is always up for a challenge and is happy to help coworkers and customers find a solution to any problem. Son of Guy Litteken, Adam is part of one of the father-son duos in our family of companies.

Outside of work, Adam enjoys spending time with his fiancée, Megan, and their dog, Bo, and is looking forward to their wedding in April.

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ENGINEER'S NOTE

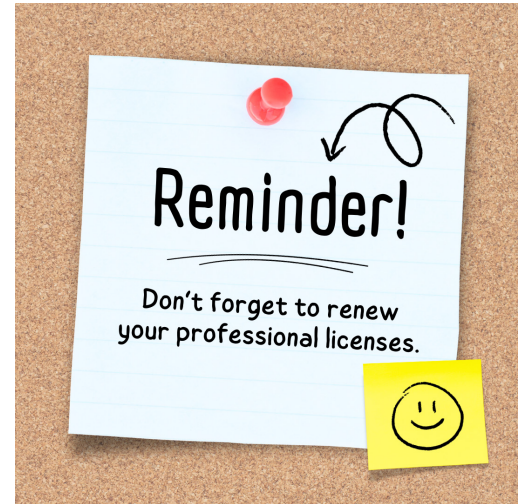


Bill Murphy, P.E.
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From the Desk of Bill Murphy, P.E.

Friendly Reminder: Renew Your Professional License(s)

If any of you are like me, you are probably telling yourself that this will be the year that you plan ahead and do not let renewal dates or submittal deadlines sneak up on you. And if you are anything like me, you are constantly battling the reality of time flying by while you are busy every day with work.



Let us help you stay on track with your Continuing Education requirements. Our monthly "Technical Talks" webinar series is free for all attendees. If you cannot join us LIVE, you can visit our YouTube channel to watch recordings of all past webinars. Another excellent option is joining us at upcoming events in your area. Please keep an eye on this newsletter and our LinkedIn posts and we will let you know where we will be speaking and/or hosting a booth. Last, but certainly not least, Lunch & Learns! We all have to eat so let us bring you breakfast, lunch or afternoon snacks and you can listen and learn while eating free food. Brilliant! Call, text, or email me or your local rep and we will gladly come see you. Thank you, friends.

YOUR TRUSTED SITE SOLUTION SPECIALISTS



Locations We Serve

Our mission is to provide quality solutions to the construction industry with exemplary customer service and support. By continually learning about our customer needs, expanding our technical knowledge and diversifying our product mix, our technically skilled teams aim to be your local source for the very best site development solutions.

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