



GeoMatrix SS

GeoMatrix SS is formulated to provide maximum control and stabilization of soil, preventing erosion due to wind and rain.

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GeoPerm

GeoPerm is the ultimate hydraulically-applied soil stabilization product. It creates an air and water-permeable mat that bonds firmly to soil preventing erosion and enhancing the establishment of healthy turf. [More](#)

Brookhaven Landfill gets a fresh taste of GeoMatrix SS & GeoPerm

The challenge:

to find a post-season erosion control method at the 600-acre, five-cell Brookhaven Landfill in Long Island. At first, those specifying the project called for erosion control mats. Dan Sponzilli, president of [Hydroseeding Pro](#) in Fairfield, New Jersey, was called in to help. His company's clientele has included the Trump National Golf Course. Sponzilli reviewed the site's challenges with his client, Atlantic Lining of Mercerville, New Jersey.

At issue:

Erosion control methods were slated for late October, but weather and other variables pushed the start date into December. Severe slopes - "about as close to 1:1 as you can get", notes Sponzilli - signaling limited accessibility and the need for appropriate mulching material. Freezing ground temperatures would have made mat installation difficult with workers being unable to staple them into the ground. Winds from the nearby Atlantic Ocean would have blown the mats around the steep slopes, creating safety and installation issues for the union labor.



In lieu of erosion control mats, Sponzilli presented an alternative to engineer Chris Dwyer of LK McLean Associates in Brookhaven, New York: GeoPerm and GeoMatrix SS - Permeable Fiber Matrix. A proper temperature window would enable easier application and provide sufficient setup time.

With client approval, four Hydroseeding Pro employees applied the products over five days in late December and early January, using 700 feet of hose. While GeoPerm was an obvious alternative, freezing temperatures made it difficult to pump it through the hoses at that length, Sponzilli says. Therefore, Hydroseeding Pro pumped a 60/40 blend of GeoMatrix SS and GeoPerm.

There were 10 acres of application with 3,000 pounds per acre total. "The combination was less viscous and it was easier to pump," Sponzilli says. "We applied the materials and had an extensive rain that weekend. Even though we didn't have the total proper setup time on the last day, there was very minimal damage - less than five percent." Sponzilli says the client "loved" the approach, especially the thousands of dollars in labor rate savings. "This was the best product for stabilization," says Sponzilli, adding his company services many landfills. "We're expert in applying these products and they always work, but we're really pleased with the results this late in the season and how the product stood up to difficult weather conditions. It is commendable the client was open to another technology." Dwyer's anxious to see how the product perform in upcoming months. "We're hoping most of it will still germinate in spring," he says. "The areas that don't, we'll re-seed with assumption that GeoPerm will do the job."

Corporate Office
157 Southbridge Road,
North Oxford, MA 01537

Tel: 1.508.987.3548
Email: info@geoenviro.net
Web: www.geoenviro.net