

Frequently Asked Questions

› Will the sand stay in place?

Yes. The sand infill, along with the system's transmissivity, is specifically designed to handle more than six inches of rainfall per hour with minimal erosion. Plus, the engineered turf works as a grid that "locks" the sand in place to help reduce the potential for significant erosion should rainfall exceed the drainage layer's flow capacity.

› How stable is the system and what is the interface friction?

The ClosureTurf™ system is exceptionally stable, with an interface friction of 43 degrees between the engineered turf and Super Gripnet. In fact, this equates to a 3.0 safety factor for typical landfill slopes.

› How is the system anchored?

ClosureTurf is only terminated at the toe or on the outside perimeter swale (depending on the specific design of a site). Anchoring to resist pullout forces is not needed since ClosureTurf incorporates a high friction ballast that resists sliding.

› What about wind resistance?

ClosureTurf's unique ballast and aerodynamic properties provide cover uplift resistance for high category hurricane force winds.

› Can equipment be driven on the ClosureTurf system?

Yes. Most rubber tire vehicles can operate on the ClosureTurf system without damaging it.

› How long will the turf last? What about fading?

An independent UV weathering study performed on our engineered turf utilized accelerated extreme exposure conditions to indicate longevity over 50 years with proper maintenance. This is due to the high absorption factor of the proprietary UV stabilizer in ClosureTurf's yarn. The engineered turf also provides a protective covering for the membrane against heat and UV degradation adding many years of functional life to the membrane.

› What colors are available?

ClosureTurf can be produced in various greens and a desert tan to match the geographic setting.

› Is wind erosion a factor?

ClosureTurf's grass strands and stable sand infill reduce the effects of wind erosion.

› How does ClosureTurf™ respond to gas build up as a result of collection system shutdowns?

The ClosureTurf system includes pressure relief valves that can prevent uplift in the event of a flare shutdown.

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› Is ClosureTurf currently being approved as a final cover?

Yes, the system has received approval by several states and by the EPA as a final cover system. The system far exceeds the performance established by states' prescriptive design and EPA "Subtitle D" criteria. Due to ClosureTurf's ability to help lower a state's and local government's potential liability for closure care and environmental superiority over a Subtitle D standard cover, we anticipate final cover approval in all states and territories.

› What happens when the system needs replacing in the future?

It's true that the engineered turf component will need to be replaced in 50+ years based on level of care, however, this is a very minimal financial obligation when compared to the savings of not having to perform on-going erosion repair, mowing and reseeding. Note that due to the protection of the membrane as provided by the engineered turf, it is expected to last several hundred years.

› How does ClosureTurf address environmentalists concerned about artificial grass?

ClosureTurf is more environmentally friendly than the current EPA Subtitle D cap requirements because it:

- › Is over a 75% reduction in the carbon footprint compared to traditional covers
- › Creates less siltation and associated ecological impacts to watercourses
- › Eliminates land destruction for borrow
- › Is 100% recyclable
- › Returns more water to the environment
- › Reduces truck trips/haul trips by 400 to 500 per acre
- › Greatly reduces GHG releases through more frequent, incremental closures

› Are any chemicals used that may cause a problem with water quality?

Since no heavy metals are used in the pigment nor any chemicals that could impact water quality, ClosureTurf can be installed in the most sensitive environments.



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