White Surfaced Geomembranes

A LIGHT-REFLECTIVE GEOMEMBRANE

GSE White is a co-extruded, high density (HDPE) or linear low density (LLDPE) polyethylene geomembrane with a UV resistant and light reflective surface layer. The white layer is fully integrated with the primary black geomembrane layer; all of the excellent properties of GSE geomembranes are not altered. When using a black geomembrane, the large amount of slack that is required to account for the thermal expansion and contraction can cause wrinkles in the liner system. These wrinkles introduce a variety of issues such as a drainage blocking, stress points in the material, and uneven stress distribution throughout the entire system. GSE White minimizes the required amount of slack and allows wrinkles to be smaller and easier to manage. The installer is able to deliver the best possible system and, in the end, increase the lifespan of the liner system.

Studies have shown that the temperature fluctuations that occur when using black geomembranes can cause moisture in the underlying layers to condense on the underside of the liner. This desiccating effect harms the clay or GCL layer beneath the liner and can also cause liquid build up at the base of slopes. With GSE White, the temperature fluctuations are lessened which in turn acts to maintain a stable moisture gradient below the liner.

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IMPROVED DAMAGE DETECTION
Below the white reflective upper surface is a black primary layer which makes up the bulk of the geomembrane thickness. If any damage should occur, the black primary layer of the geomembrane will be exposed against the white surface layer making visual inspection easier.

UV RESISTANCE
Traditionally, carbon black is utilized in polyethylene geomembranes to provide protection from the sun because of its ability to absorb UV radiation and release it as heat. In the white surface layer however, a custom formulation is incorporated which uses UV stabilizers to provide excellent protection without the presence of carbon black.

MANUFACTURING CAPABILITIES
The white upper surface and the lower surface can be textured for increased frictional resistance. The bottom surface can be comprised of a patented conductive layer to enable liner integrity surveys to be performed following installation of the liner.

ENGINEERING SUPPORT
The GSE engineering support staff is available to help solve any issues you have with your project. It is comprised of a multidisciplinary group of professionals with knowledge across a wide range of products and their applications. This includes geomembranes, geosynthetic clay liners, geonets, geocomposites, and woven and nonwoven geotextiles.

HIGH PERFORMANCE GEOMEMBRANES
For more demanding projects, GSE offers High Performance geomembrane products. Contact your GSE representative for more information.

1 Refer to the application sheet for Electrically Leak Location Geomembranes for more information.
2 Refer to the application sheets for High Performance GSE Geomembranes for more information.

GSE is a leading manufacturer and marketer of geosynthetic lining products and services. We’ve built a reputation of reliability through our dedication to providing consistency of product, price and protection to our global customers.

Our commitment to innovation, our focus on quality and our industry expertise allow us the flexibility to collaborate with our clients to develop a custom, purpose-fit solution.

For more information on this product and others, please visit us at GSEworld.com, call 800.435.2008 or contact your local sales office.