Golf Courses

Ponds and irrigation reservoirs on golf courses provide both practical and aesthetic benefits. GSE high density polyethylene (HDPE) and linear low density polyethylene (LLDPE) geomembranes provide a cost-effective and quality method of waterproofing these earthen water impoundments. Geomembranes are also used increasingly to remediate leaking clay lined ponds and lakes. GSE is the world’s largest manufacturer of geomembrane lining systems. We have extensive experience supplying liners in golf course facilities.

QUALITY GSE GEOMEMBRANE LINING SYSTEMS
GSE geomembrane products provide a wide range of water containment requirements found on all golf courses around the world, such as decorative ponds and irrigation reservoirs. Our geomembranes provide secure water containment and long-term performance derived from their exceptional material properties.

ECONOMICAL ALTERNATIVE TO CONVENTIONAL SOIL LINERS
Up until the mid 1980s, the most common liner was a conventional soil liner, typically clay, varying in thickness and constructed by heavy mobile equipment. Geomembranes provide an alternative lining system to clay liners that is more economical, quicker to install, and will out-perform clay liners that desiccate and crack over time.

GSE QUALITY HDPE AND LLDPE GEOMEMBRANES
Polyethylene geomembranes are commercially available in a range of resin densities. GSE uses only high quality polyethylene resins specially formulated to exhibit excellent chemical resistance, UV-resistance, strength, durability, and resistance to stress cracking. These properties are critical to containment in golf course pond lining applications. GSE HDPE geomembranes are best suited for high wear, exposure to harsh liquid conditions, and exposed applications. GSE LLDPE geomembranes offer higher flexibility to withstand large differential settlement conditions.
GSE HDPE and LLDPE geomembranes are used extensively in pond lining applications due to their proven performance as a cost efficient replacement to conventional clay and concrete lining systems. And compared to other geomembranes, such as flexible PVC, GSE geomembranes contain no plasticizers or fillers that may cause premature geomembrane cracking and reduced service life.

AN ECONOMICAL ALTERNATIVE TO CONVENTIONAL COMPACTED CLAY LINERS
For those golf course pond lining applications that require compacted clay liners (CCLs), in addition to geomembranes GSE also offers two types of geosynthetic clay liners (GCLs), GSE BentoLiner fabric encased GCLs and GSE GundSeal geomembrane supported GCLs. GCLs are commonly used to replace conventional compacted clay layers with a thin low permeability sealing layer of sodium bentonite. The GSE BentoLiner GCL is ideally suited as a replacement for thick layers of compacted clay by simply rolling out a fabric encased bentonite layer on flat or sloping areas. The GSE GundSeal GCL is used as a replacement for a composite liner (geomembrane/clay), replacing both a low permeability clay layer along with an impermeable and chemically resistant geomembrane. Its one product installation saves installation time as well as improves composite liner hydraulic performance.

Whether the choice is GSE BentoLiner or GSE GundSeal to provide an economical alternative to a compacted clay golf course pond liner, GSE provides the widest range, most versatile, and highest quality GCLs in the world.

SKILLED LINER SYSTEM INSTALLATION
GSE HDPE and LLDPE geomembranes are installed very rapidly, much quicker than constructing a compacted clay pond liner. We have an extensive dealer network of approved GSE installers throughout the world. With approved GSE Installers you can be assured of a quality and cost-effective geomembrane lining system installation.

PREFABRICATED LINING SYSTEMS
For smaller projects, such as a small decorative pond or waterway, GSE provides prefabricated HDPE or LLDPE geomembrane panels for the client’s own installation. GSE Plastic Fabrications is available to fabricate liners to the specified size and dimensions to custom-fit your pond or canal.

COVERED OR EXPOSED POND LINERS
Geomembrane golf ponds and reservoir liners may be left exposed or may be protected with a cover of soil or concrete. GSE’s UV-stabilized geomembranes can remain exposed for an extended period of time with no decline in their level of performance. However, most golf pond liner systems should be protected against damage from rocks, metal golf shoe spikes, debris, equipment, and vandalism.

REPAIR OF EXISTING PONDS AND LAKES
GSE geomembranes are suitable for lining over existing pond liners, such as weathered soils and concrete. The liners are simply un-rolled over the prepared surface by approved GSE Installers.

INSTALLER NETWORK
The GSE Installer Network leads the industry with the most experienced, large, and flexible crews available around the world to meet your installation requirements. Each installer is equipped with state-of-the-art welding and testing equipment to ensure a successful installation. Selecting a qualified installer with the right product knowledge is critical to your success. Let GSE connect you to the right installer to handle your installation project of any size from start to finish.

ENGINEERING SUPPORT
The GSE Engineering Support Staff is comprised of multidisciplinary product professionals to support you across a range of project requirements. This includes knowledge in geomembrane, geosynthetic clay liners, geonet, geocomposite, nonwoven geotextile and concrete protection products and application solutions. Rely on our technical staff to help you solve your project issues.

CUSTOM FABRICATION
The GSE Custom Fabrication Group builds products to your exact specifications. We have extensive experience in prefabricated polyethylene products and components. A few examples of our custom fabricated products are Aqua Tanks, Quick Containment, concrete protection liners, boots, sumps, pads, pipes, daily covers, temporary containment, containment boom and other products to fulfill your fabrication needs.

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.