

## Product Support

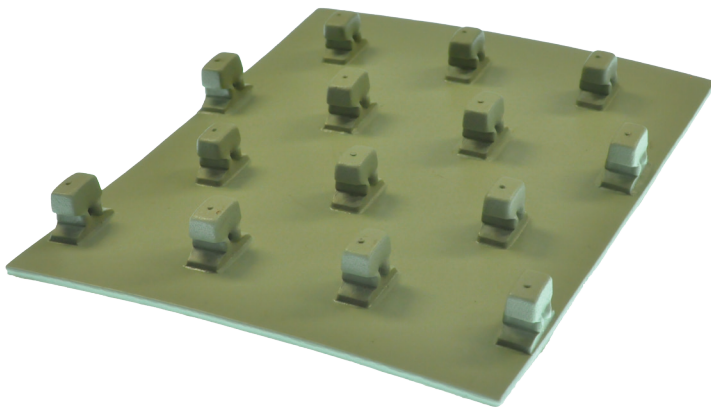
We are available to match project requirements with a cost-effective concrete protection solution.

## Customer Service

GSE has a full team of highly trained and skilled personnel to support your project needs from inception to design and procurement activities. This support network allows us to address your technical needs early and not during construction.

## Public Works Compliance

GSE StudLiner has been tested by an independent laboratory to confirm compliance with Green Book standards. Test reports can be provided on request. The Green Book is produced by Public Works Standards, Inc., and is intended to provide standardized specifications for public works construction. It is widely accepted and referenced throughout the U.S.



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.

REV 15JAN2013

For more information on this product and others, please visit us at [GSEworld.com](http://GSEworld.com), call 800.435.2008 or contact your local sales office.

**[ DURABILITY RUNS DEEP ]**

**GSE**  
ENVIRONMENTAL™

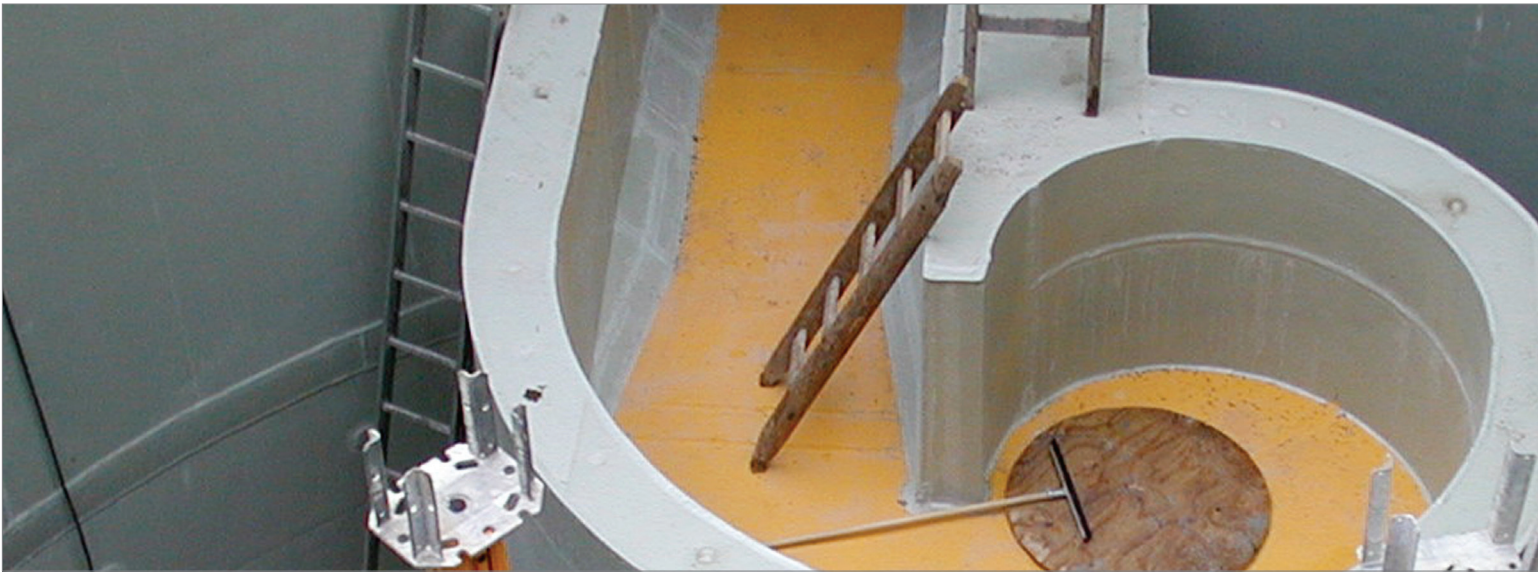




THE PREMIER CONCRETE PROTECTION PRODUCT  
**GSE STUDLINER**



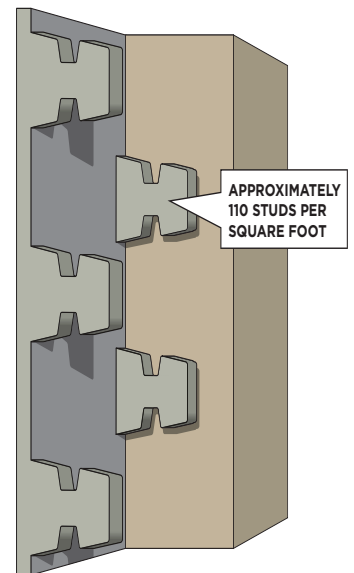
**GSE**  
ENVIRONMENTAL™



## INTRODUCTION

GSE is recognized as the global leader in manufacturing high-quality geosynthetic products and installation services since 1972. We offer unparalleled availability and a comprehensive line of geomembrane, geosynthetic clay liner, geonet, geocomposite, nonwoven geotextile, and specialty products.

GSE produces StudLiner, a line of high-density polyethylene (HDPE) concrete protection product with studs on one side that lock the liner into the surface to prolong the life of the concrete. GSE StudLiner is available in gray or black, and in a variety of sizes to fit your specific application.



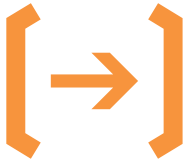
### Product Properties

[Concrete protection liner with integrated studs]



## GSE STUDLINER PERFORMANCE

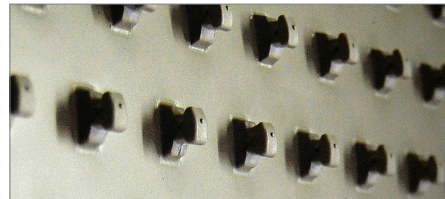
<b>EXPOSURE</b>	Maximum Temperature	160°F
	Acid Resistance	Excellent
	Alkali Resistance	Excellent
	Chlorinated Hydrocarbon Resistance	Good
	Aromatic Hydrocarbon Resistance	Good
	Aliphatic Hydrocarbon Resistance	Excellent
	Plasticizer Requirement	None
	Filter Requirement	None
	Crosslinking Due to UV	None
	Molecular Structure	Contains only carbon-carbon & carbon-hydrogen bonds which create broad chemical resistance & long-term durability.
	Seaming Strengths	>90% Efficiency
<b>PERFORMANCE</b>		



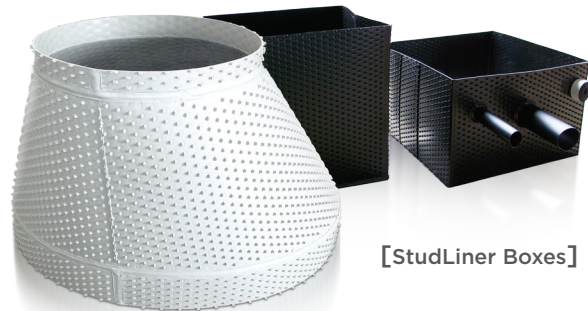
### ADVANTAGES

GSE StudLiner provides excellent resistance to mechanical, chemical and environmental threats to ultimately increase the service life of the concrete structure.

- [→] Highest liner pull-out strength available from any thermoplastic concrete protective system.
- [→] Minimal lateral movement of the liner system due to thermal expansion and contraction.
- [→] Excellent protection against mechanical damage and chemical attack.
- [→] Outstanding resistance to UV degradation.
- [→] Welding technology provides the highest reliability, repeatability and strength in the industry.
- [→] Economic alternative to other concrete protection systems.
- [→] Prefabricated panels available to any project specific dimensions or geometric shapes.



[GSE StudLiner Close Up]



[StudLiner Boxes]