SITEGUARD

Post-driven seamless secondary containment system

Features

- Seamless liner
- Durable and puncture resistant
- Professional engineer certified designs
- In-ground and zero-ground containments available
- Inert and VOC-free materials
- Customizable to site requirements

Benefits

- Eliminates cost of soil remediation associated with leak or spill
- Virtually maintenance free
- Proven useful life of 20+ years
- Lower total cost of ownership
- 100% capture of all non-volatile fluids

A permanent, low-maintenance, custom-built solution

In the event of a leak or spill, the SITEGUARD™ seamless secondary containment system provides a barrier that protects the environment from corrosive elements commonly found in the oil and gas production process. Our secondary containment system is constructed from components and coatings that use our proprietary modified polyurea lining and coating technology. The technology maintains impermeability and puncture resistance under exposure to harsh UV and weather extremes, resulting in long life and minimal maintenance costs.

Engineered for total protection

To construct each containment system, our proprietary modified polyurea lining and coating technology is sprayed onto a flexible geotextile base by our state-of-the-art computer-controlled, robotic system. This assures that a consistent layer of protection is precisely applied across every square inch of the liner. Combined with sturdy steel wall construction, this system ensures your containment will support full hydrostatic loading as designed.

Complete spill containment

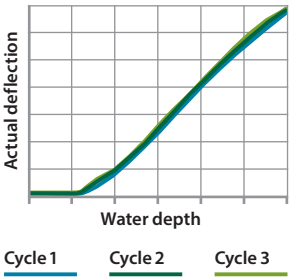
In instances that a production tank has failed, our secondary containment system has captured 100% of the non-volatile fluid.

Each system is custom built to fit your site and SPCC requirements. The SITEGUARD seamless secondary containment system is backed with an 18-month warranty.

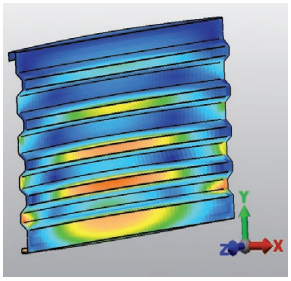
Our secondary containment system is *engineered to protect*® your investment, the environment and your reputation.

SITEGUARD secondary containment systems have been installed in more than 8,000 locations with a 100% environmental success rate.

Cyclic hydrostatic deflection relationship



Finite Element Analysis



Each SITEGUARD seamless secondary containment system design has received a professional engineer certification after multiple iterations of Finite Element Analysis (FEA) and physical deflection testing.

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Post-driven seamless secondary containment system

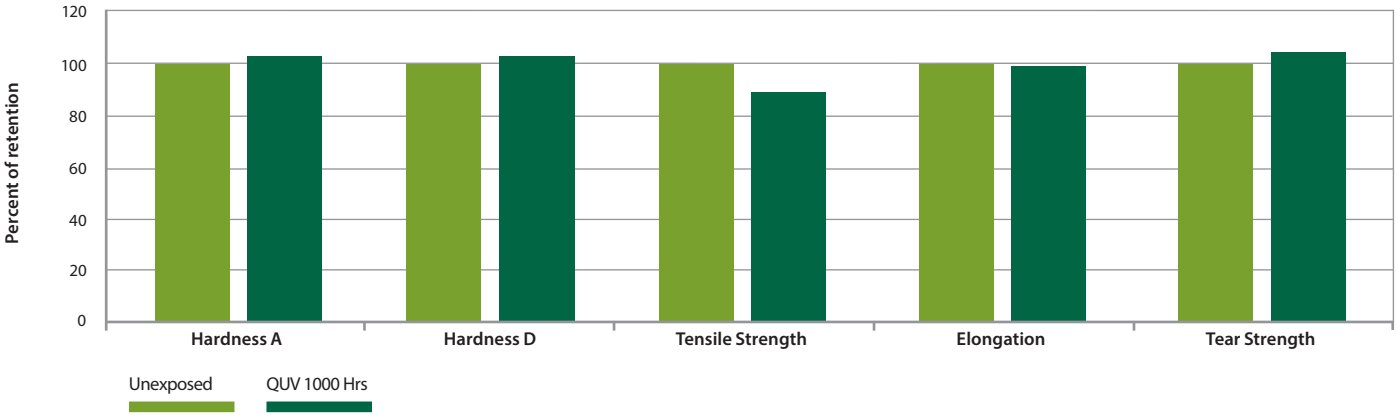
Elastomer physical properties

Physical Test	Test Method	Typical Value
Hardness, Shore A	ASTM D-2240	85-90
Tear strength (pli)	ASTM D-624	300-350
Elongation (%)	ASTM D-412	350-500
Tensile strength (psi)	ASTM D-412	1,600-2,800
Taber abrasion (mg wt loss)	ASTM D-4060	1.0* (0.001%)
Static coefficient of friction (wet/dry)	ASTM C-1028	0.77/1.02
Electrical resistance (Ω)	ASTM F-150	10^{12} (insulative)
Permeability (perms)	ASTM E-96	0.05
Permeability (cm/sec)	ASTM D-4491	0×10^{-12}
Puncture resistance (lbs) (top side)	ASTM D-751	129
Puncture resistance (lbs) (bottom side)	ASTM D-751	137

*Abrasion loss: tested at CS17 wheel, 1 kg load, 1,000 cycles

The polyurea spray used in our proprietary liner retains its properties even after years of exposure to UV light and extreme weather conditions. The maximum recommended long-term exposure temperature is 200°F (93°C).

Weatherability characteristics



The most durable liner in the industry

FALCON TECHNOLOGIES produces a family of high-performance products featuring a proprietary modified polyurea lining and coating technology that provides a seamless, durable, maintenance-free layer of protection for your wellsite. Weather is not an issue either—our liner is UV resistant and retains its properties to -40°F. With a proven useful life of 20+ years, our liner technology significantly extends asset life, resulting in dramatically reduced maintenance and replacement costs for a much lower total cost of ownership.

For purchasing or inquiries about SITEGUARD post-driven products, please contact +1 817 251 0525

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