

# GROUNDGUARD

Pre-sprayed liner that consists of geotextile substrate robotically coated with an impermeable layer of a proprietary polyurea

## Ideal for applications in:

- Secondary containment
- Vapor barrier applications
- Wastewater treatment
- Above- and below-ground waterproofing
- Retention ponds
- Industrial facilities
- Ditches and irrigation canals (water reclamation)
- Landfill
- Aviation
- Mining
- Power generation
- Nuclear facilities
- Agricultural ponds
- Recreational ponds and lagoons



## Features

- Chemically inert, environmentally friendly, contains no Volatile Organic Compounds (VOC)
- Proprietary state-of-the-art, automated manufacturing process provides the highest level of consistency and coverage per square foot
- Engineered and tested to resist tearing, puncturing and most chemicals
- Retains properties after years of exposure to UV light and extreme weather
- Over 25 million square feet produced and proven durable in harsh oilfield and industrial conditions



## Benefits

- Far outlasts less durable alternative liners such as HDPE, LLDPE, PVC and EPDM
- Provides a seamless, weld-free liner solution, eliminating leaks due to weld failures
- Reduces installation time, resulting in lower costs
- Lays flatter for easier installation, reducing trip hazards
- Durable under heavy vehicle traffic
- Maintenance-free, easy to clean and reusable
- Lowers total cost of ownership with a proven useful life of 20+ years
- Eliminates labor-intensive surface preparation to various substrates
- Seamless waterproofing membrane has excellent impact and abrasion resistance for harsh environments

## Customize to fit any application

GROUNDGUARD can be customized to your application with different types of slip-resistant options including crumb rubber, coal slag, aluminum oxide or quartz. Multiple color and woven or non-woven geotextile combinations are available.

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## 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

## Standard liner properties

Physical Test	Test Method	Typical Value
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 <sup>12</sup> (insulative)
Permeability (perms)	ASTM E-96	0.05
Permeability (cm/sec)	ASTM D-4491	0 x 10 <sup>-12</sup>

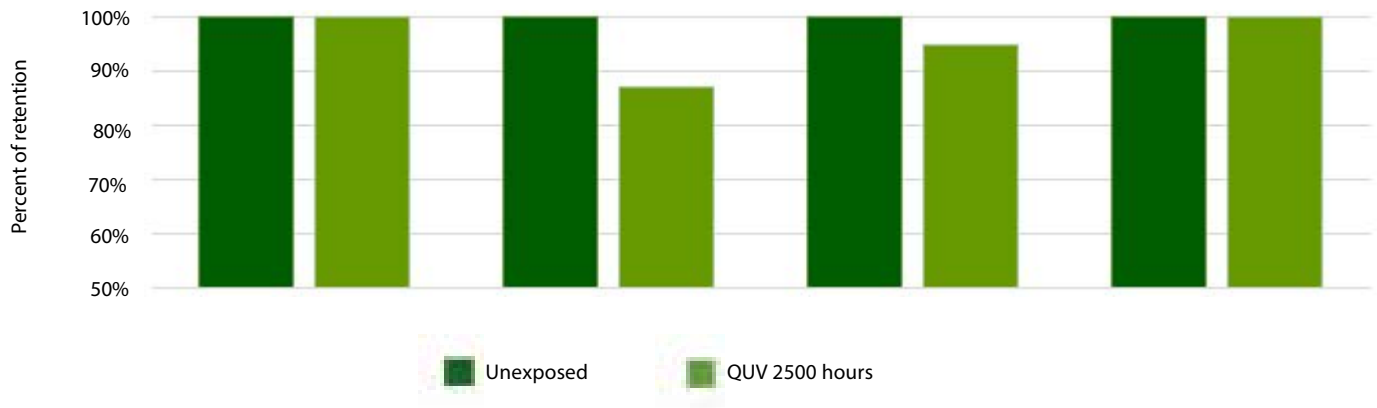
\*Abrasion loss: tested at CS17 wheel, 1 kg load, 1,000 cycles

## Coated geotextile physical properties

Liner description	Avg Thickness (mils)	ASTM D-412 Tensile strength (psi)	ASTM D-751 Puncture Resistance (lbs)	ASTM D-624 Tear Resistance (lbs)
16 oz Non-Woven Potable	60	911	140	78
16 oz Non-Woven	55	502	140	69
10 oz Non-Woven	55	811	99	47
Woven Heavy Duty	85	577	214	44
Woven Select	60	4,112	135	32
GROUNDGUARD LITE	40	15	37	19

Result is average of machine and transverse direction

## Weatherability characteristics



Standard product line physical properties.

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