

# 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 ( $\Omega$ )       | ASTM F-150  | $10^{12}$ (insulative) |
| Permeability (perms)                     | ASTM E-96   | 0.05                   |
| Permeability (cm/sec)                    | ASTM D-4491 | $0 \times 10^{-12}$    |

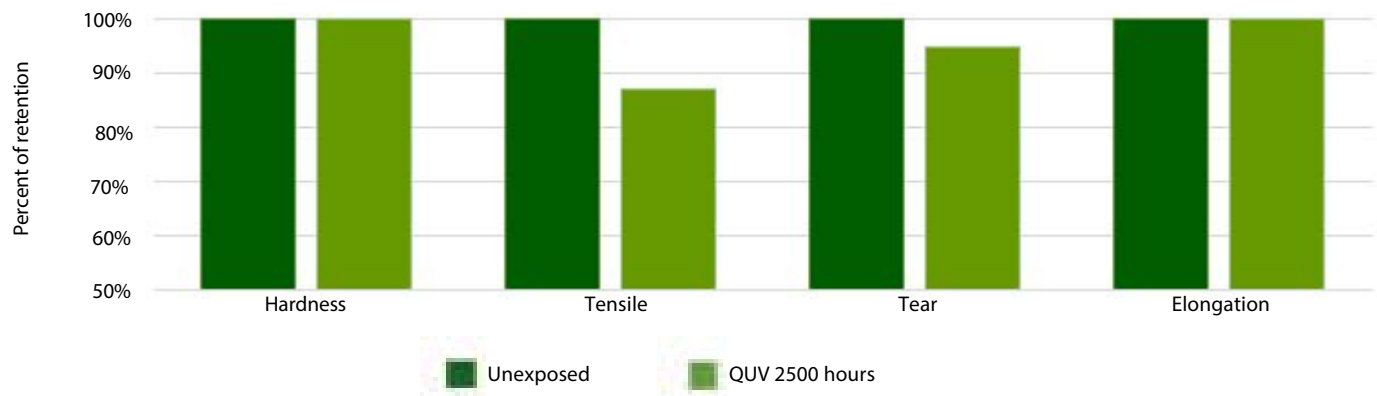
\*Abrasion loss: tested at CS17 wheel, 1 kg load, 1,000 cycles

## Coated geotextile physical properties

| Liner description       | Avg Thickness (mils) | ASTM D-412<br>Tensile strength (psi) | ASTM D-751<br>Puncture Resistance (lbs) | ASTM D-624<br>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



Physical properties retention after 2500hrs QUV

Talk to ASSETGUARD to find out how we can keep your worksite compliant and environmentally safe.  
Learn more at +1 800 551 3247 | [assetguardproducts.com](https://assetguardproducts.com)