



PROTECT THE ENVIRONMENT FROM CONTAMINANTS

SORBSEAL® HYBRID GEOSYNTHETIC CLAY LINER



GEOFABRICS®
Sustainable solutions



100's
of years of
effective
containment

Used as
a liner or
laid over
contaminated
soil

Sorbseal hybrid Geosynthetic Clay Liner

Sorbseal® is an Australian made hybrid Geosynthetic Clay Liner (hGCL) which works as a barrier to liquids and helps trap a wide range of environmental contaminants, preventing them from entering the surrounding area.

Why choose Sorbseal?

Sorbseal has been modified with a very specific, high surface area powdered activated carbon and when used in composite lining designs, it can be an effective barrier for hundreds of years. Sorbseal is essentially a supercharged GCL with the ability to capture a lot more contaminants than standard GCLs that are made with bentonite alone. The powdered activated carbon enables the microscopic chemical contaminants to be attracted to, and then trapped inside the pores of the powdered activated carbon.

Sorbseal is:

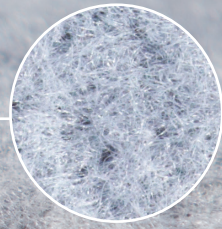
- Reliable and safe-to-use as it is engineered to meet the EPA's National Environmental Management Plan (NEMP) guidelines on maximum levels of PFOS, PFOA and PFHxS
- Customisable to suit specific site chemistries for tailored solutions
- For multiple uses across a range of applications including base liners, ponds and capping of contaminated materials

Using Sorbseal vs GCL

Initial studies on standard GCLs showed poor retention of a number of environmental contaminants and organic compounds. The primary difference between Sorbseal and a standard GCL is the addition of the powdered activated carbon. The bentonite is the same and the cover and carrier geotextiles are the same, so for those designing with standard GCLs, there's no need to change traditional design methodologies. The hydraulic performance, mechanical behaviour and internal shear strength properties, all remain within expected standard GCL parameters.



The powdered activated carbon enables the microscopic chemical contaminants to be attracted to, and then trapped inside the pores of the powdered activated carbon.




A BARRIER TO LIQUIDS AND HELPS TRAP A WIDE RANGE OF CONTAMINANTS



GEOFABRICS®

SECTOR SPECIFIC DETAILS

| | | |
|--|----------------|--|
|  | MINING | <ul style="list-style-type: none"> • Sorbseal can also assist with environmental contamination in mining leachate ponds • Sorbseal can be used as a liner of leachate ponds to stop environmental contaminates leaking out • Rigorous testing shows Sorbseal can trap environmental contaminates within liquid and soil to stop the spread for hundreds of years |
| | DEFENCE | <ul style="list-style-type: none"> • Most experienced geosynthetic waste and containment team in Australasia • Lining systems designed to exceed regulatory guidelines to protect the environment through the control of hazardous leachates and liquors • Needle-free to help prevent damage to the liner |
| | WASTE | <ul style="list-style-type: none"> • A study conducted by The University of Queensland detected PFAS in every one of 35 landfill sites across Australia, whether it was still operational or now closed • Sorbseal can be used as a liner or laid over contaminated landfill sites like a blanket to stop PFAS leaking out • Rigorous testing shows Sorbseal can trap PFAS within contaminated liquid and soil to stop the spread for hundreds of years |

ADDITIONAL BENEFITS OF WORKING WITH GEOFABRICS

| | |
|--|---|
| REDUCED RISK | <ul style="list-style-type: none"> • Produced to strict manufacturing Quality Assurance (QA) provided by a geosynthetics NATA accredited laboratory, ensuring consistent quality for the entire project • Rolls are numbered individually and traceable back to the actual QA test results • Laboratory support is provided for the construction QA process for Sorbseal |
| ENHANCED PERFORMANCE AND RELIABILITY | <ul style="list-style-type: none"> • Manufactured in Australia and installed to meet Australian specifications and conditions • The use and effectiveness in a large range of applications is supported by laboratory testing and ongoing field performance |
| COST BENEFITS | <ul style="list-style-type: none"> • Reduces the volume of quarried sand and rock required • Reduces construction times over swampy ground • Wider and longer rolls reduce waste with overlaps and savings on transportation costs |
| TECHNICAL EVALUATION AND INSTALLATION SUPPORT | <ul style="list-style-type: none"> • Supported by technical assistance from our Geofabrics engineers • Installation equipment is available to assist with efficient and correct installation • Geofabrics Research, Innovation and Development (GRID) facility available for testing into the use of Sorbseal |



CAN TRAP ENVIRONMENTAL CONTAMINANTS WITHIN LIQUID & SOIL TO STOP THE SPREAD FOR HUNDREDS OF YEARS



Uses a powdered activated carbon hybrid geosynthetic clay liner to trap and seal dangerous chemicals away



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AUSTRALIAN-MADE GEOFABRICS

Geofabrics is the only geotextile manufacturer in Australia, with plants in Albury and Ormeau. We pride ourselves on providing unrivalled service to our customers. We can recommend the best geosynthetic product to achieve the objectives of your project and ensure it's available when you need it.

Over 40 years of experience allows our technical staff to provide practical support, based on local conditions. We are proud to have been recognised in the Australian Financial Review (AFR) Most Innovative Company list in 2020 with Bidim Green.

In 2021, Geofabrics ranked #1 in AFR's Most Innovative Company for Manufacturing and Consumer Goods for Sorbseal.

With a view to the future, we are committed to improving the sustainability of our business by reducing waste to landfill, lowering our carbon emissions and investing in our people.

Visit [geofabrics.co](https://www.geofabrics.co) or call 1300 60 60 20 (AU)
or [geofabrics.co.nz](https://www.geofabrics.co.nz) or call 0800 60 60 20 (NZ)

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COMPANIES



GEOFABRICS[®]
Sustainable solutions