

# Geosynthetic Bentonite Clay Liner

Geosynthetic Clay Liner is a geocomposite of a layer of bentonite encapsulated between two geotextiles to form a liner for numerous Fluid containment applications.

GCL uses non-woven geotextile in the upper layer to encapsulate the bentonite swelling clay as carrier, and underneath a woven geotextile layer for dimension stability. Needled punching the layers offers reinforced internal shear. HDPE film lamination offers the best sealing effectiveness.



## Versatile Sealing Applications of GCL System

- Flood protection
- Waterstop to foundation and basement structure
- Underground waterproofing
- Wetland creation
- Water containment, ponds & lakes

## Benefits of GCL System

- Reduce construction costs by replacing compacted clay
- Self-sealing overlaps to ensure integrity
- Quick and easy to install, minimal substrate preparation
- Withstands differential settlement
- Flexible with the structure conformity
- Environmentally safe - no chemicals, additives & non-toxic
- Uniform peel strength provides multi-directional shear strength



Installation of GCL



Pond lining using GCL

## Our Service

- Design, supply and delivery
- Installation and site report
- Method statement and testing
- System commissioning



Natural stream course waterproofing  
May 2009 (HY/2004/02)



Wetland waterproofing  
January 2022 (YL/2020/02)



Basement  
waterproofing



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