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ABOUT AMCOL

CETCO is a wholly owned subsidiary of AMCOL International Corporation

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GREEN PRINTING

FEATURES

Geosynthetic Clay Liners (or GCLs) are comprised of two geotextiles that are needlepunched together, encapsulating a layer of sodium bentonite clay between them. GCLs are known for having consistent, very low permeability. They have the unique ability to seal around penetrations, self-seal punctures and self-seam at the overlaps.

GROUNDWATER PROTECTION SOLUTIONS

Supergroove™ Technology:
CETCO products are the only GCLs that feature a groove in the nonwoven fabric that allows the bentonite to migrate out and self-seam at the overlap. This feature decreases bag bentonite costs and the labor to apply it by a factor of ten.

Granular Bentonite:
CETCO GCLs feature granular bentonite, which creates less dust during installation than powdered bentonite and is less likely to shift through the needlepunch reinforcement, thus providing consistent hydraulic performance.

Durable Needlepunched Reinforcement:
CETCO reinforced GCLs can withstand shear stresses on steep slopes. The high needlepunch density provides higher peak internal shear strengths, without relying on supplemental processing.

Advantages Over Compacted Clay
- Better hydraulic performance
- Installed in wider temperature spectrum
- Consistent, known and tested quality
- Technical and design assistance
- Reduced carbon footprint

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LINING TECHNOLOGIES

UNMATCHED CHEMICAL RESISTANCE

Bentomat® GCLs
Standard bentonite-based GCLs are designed to provide a hydraulic barrier against many leachates. The swelling bentonite fills up pore space and constrains the path to water, resulting in a low-permeability hydraulic barrier. More than 1 billion square feet of this material has been installed worldwide.
*Available in DN, ST, 200R

Resistex™ GCLs
Dry blended, polymer-treated GCLs are designed to provide improved chemical resistance in moderately aggressive leachate environments. These polymers help to reduce the effects of cation exchange by reducing and partly offsetting the reduced bentonite swell.
*Available in DN, ST, 200R

Continuum™ GCLs
Bentonite Polymer Alloy GCLs contain a proprietary technology where the polymer is synthesized in bentonite. The bentonite polymer alloy provides the highest level of chemical resistance, even in extremely aggressive leachates.
*Available in DN, ST, 200R

Bentomat® GCLs
Standard bentonite-based GCLs are frequently used in environmental containment applications and are a high-performance, cost-effective alternative to compacted clay liners.
*Available in DN, ST, 200R

InterLoK™ GCLs
Low Permeability GCLs are attained by adding non-biodegradable, high-viscosity polymers to sodium bentonite to even further reduce available pathways for water flow. These GCLs have a maximum permeability 100 times less than conventional compacted clay liners.
*Available in DN, ST, 200R, SDN

Bentomat® Composite Laminate GCLs
Composite Laminate GCLs consist of bentonite clay and a flexible plastic membrane. The bentonite clay is encapsulated between two geotextiles that are needlepunched together, and the flexible plastic membrane is laminated to the outer geotextile surface. These GCLs have a maximum permeability 200 times less than conventional compacted clay liners and 10 to 20 times less than standard bentonite-based GCLs.
*Available in CLT, CL, GC0CL.

SUPERIOR HYDRAULIC PERFORMANCE

DESIGNED TO MEET YOUR DEMANDS

Technical Support
In addition to offering high quality products, CETCO provides unparalleled engineering support. Our technical staff is well trained in specification review and can offer leading or design assistance. CETCO also maintains a full library of laboratory test reports from past projects and reference articles to assist you on your project.
CETCO can assist in determining the right clay technology based on your leachate. Contact your local technical sales manager about any of our GCL technologies for your next project.
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Geosynthetic Clay Liners
lining.cetco.com

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ST: Woven/Nonwoven, Reinforced
200R: Woven/Nonwoven, Unreinforced
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