AGRU Polymer-Enhanced GeoClay®

AGRU America's polymer-enhanced GeoClay® is a reinforced needlepunched geosynthetic clay liner with a polymer enhancement to the bentonite component. This specialized product is designed to withstand even the most aggressive leachates thanks to both the low-permeable bentonite and the absorptive, high chemical resistant polymer. AGRU polymer-enhanced GeoClay are designed for moderate to steep slopes and moderate- to high-load applications, where increased internal shear strength is required.

Applications

AGRU GeoClay serves as a component in the primary or secondary layer in composite landfill cells and closures, mining leach pads, tailing impoundments, and reclamations as well as a component in composite liners for ponds and lagoons.

Technical Overview

- AGRU GeoClay is available in roll widths of 15.5' and is hydraulically superior to several feet of 1×10⁻⁷ cm/ sec compacted clay. AGRU GeoClay liner has high internal and interface shear strength for slope stability.
- One truckload covers over 90% of an acre. AGRU GeoClay is installed more efficiently than traditional compacted clay layers.
- GeoClay is made of natural sodium bentonite, which has self-healing and self-sealing properties.
- Sodium bentonite is compatible with typical municipal solid waste leachates and typical mining leachates.
- Compatibility can be established with other waste streams via site-specific testing which is recommended.
- Improved project cost-effectiveness from reduced CQA time and testing costs of AGRU GeoClay.



AGRU America, Inc. 800-373-2478 agruamerica.com

843-546-0600 salesmkg@agruamerica.com



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