

AquaGATE⁺ ORGANOCLAY

Background

AquaGate+Organoclay is a patented, composite-aggregate technology resembling small stones that is typically comprised of a dense aggregate core. In this application of the technology, a powdered organoclay coating is utilized (Figure 1) with varying percentages of additive layer by percent of total weight.

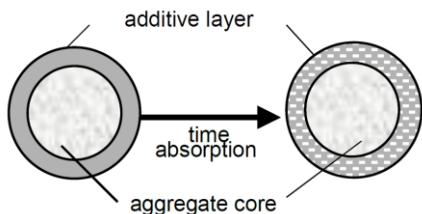


Figure 1. Configuration of ORGANOCLAY-coated particle.



AquaGate+Organoclay serves as a delivery mechanism to reliably place reactive capping materials into aquatic environments.

Product Specifications

Aggregate:	Nominal AASHTO #8 (1/4-3/8") or custom-sized to meet project-specific need * Limestone or non-calcareous substitute, as deemed project-appropriate
Organoclay:	Powdered – Approximate 200 Mesh ◦ Modified Bentonite Clay; Modified Natural Mineral (Montmorillonite) ◦ Light Brown Powder; Odorless Manufacturers – Product Designation ◦ Aqua Technologies of Wyoming – ET-1 Activated Clay ® ◦ CETCO – PM200 Organoclay® ◦ Biomin - OilSorb * Formulations Range from 15 –30% by weight
Oil Adsorption Capacity:	From 50-100% of the Organoclay quantity by weight
Binder:	Cellulosic polymer
Permeability:	1×10^{-2} to 1×10^{-5} cm/sec
Dry Bulk Density:	75 – 85 lbs/ft ³
Moisture:	10 – 20% (maximum)



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