

AquaGATE⁺ SORBSTER

Background

AquaGate+Sorbster 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 zeolite-based coating of Clinoptilolite is utilized (Figure 1) with varying percentages of additive layer by percent of total weight.

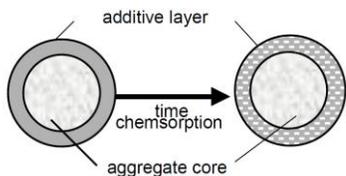


Figure 1. Configuration of a Sorbster particle.

AquaGate+Sorbster 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
Sorbster:	Powdered – Approximate 200 Mesh <ul style="list-style-type: none"> ◦ Rust/Orange Powder; Odorless ◦ Manufacturers – Product Designation ◦ MAR Systems, Inc. – Sorbster <i>* Formulations Range from 2-5% by weight</i>
Mercury Binding:	Chemsorptive process – 50-100% removal in batch treatability testing
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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 Last Revised: May 2017