

AquaBlok® 3070SW™

General Description

AquaBlok is a patented composite aggregate resembling small stones that is typically comprised of a dense aggregate core wrapped with an additive layer. In this application of the technology, a powdered blend of sodium bentonite and attapulgite clay is utilized as the coating or additive layer (Figure 1).

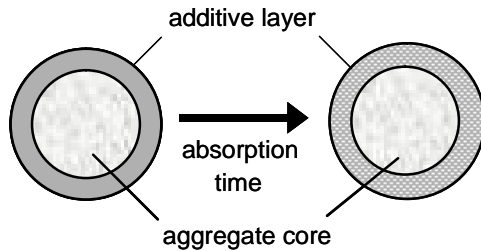


Figure 1. Configuration of stone-clay composite particle.

AquaBlok 3070SW is a saltwater-compatible formulation which is 30% clay by weight (based on the total quantity of material used in production). This product will provide a low-permeable seal without mechanical compaction in water with salinity in the range of 12-35ppt.



Product Specifications

Aggregate Core:	Nominal AASHTO #8 (1/4-3/8") crushed limestone or non-calcareous substitute, as deemed project-appropriate (can be custom-sized to meet project-specific need)
Additive Layer:	<p>Powdered (approx. 200 mesh); light grey (color); odorless</p> <ul style="list-style-type: none"> ◦ Bentonite Clay: High-swell Wyoming sodium (Na) bentonite (montmorillonite) ◦ Attapulgite: Palygorskite (hydrated aluminium-magnesium silicate) ◦ 50/50 blend (standard) or custom blended to meet project-specific need <p>Manufacturers – Product Designation</p> <ul style="list-style-type: none"> ◦ Bentonite Performance Minerals (bentonite) – BARA-KADE® Standard ◦ Active Minerals International (attapulgite) – Florigel® H-Y ◦ Others that are deemed to meet the manufacturer specification
Binder:	Cellulosic polymer
Permeability:	1×10^{-7} to 1×10^{-8} cm/sec
Dry Bulk Density:	75 – 85 lbs/ft ³



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