

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).

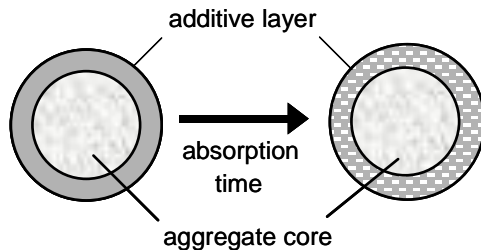


Figure 1. Configuration of stone-clay composite particle.

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:	<ul style="list-style-type: none"> ○ Powdered (approx. 200 mesh); light grey (color); odorless ○ 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 Manufacturers – Product Designation <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
Moisture:	7 – 15% (maximum)

Product Storage & Handling

AquaBlok should always be stored under-roof or completely protected (i.e. tarped) from exposure to surface moisture (e.g. precipitation, run-off, excessive condensation) prior to placement. Storage in a temperature- and/or humidity-controlled environment is not necessary. However, always store in original packaging on a clean, dry pallet prior to installation.

Material can be placed using a wide range of commonly available construction equipment – e.g. loaders, excavators, conveyors. Care should be taken to keep equipment as dry as possible during handling. For optimum performance, AquaBlok should NOT be blended or mixed with resident soil. Mechanical compaction can further reduce permeability but is not necessary.



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