

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).

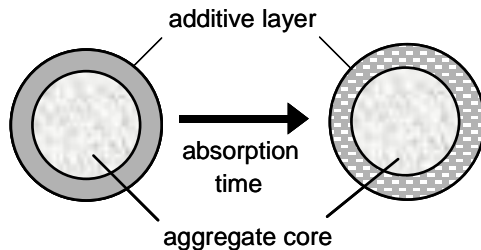
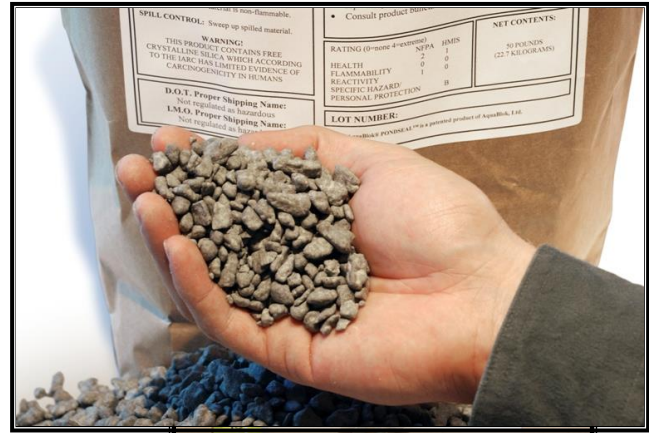


Figure 1. Configuration of stone-clay composite particle.

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:	Powdered (approx. 200 mesh); light grey (color); odorless <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
	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.



AquaBlok®
Composite Particle System

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- Road Grids
- Wall Grids
- Slope Stabilization

Specialty Fabrics

Composite Geomembranes

- GCLs, PVC, HDPE, LLDPE, EPDM, Granular Bentonite

SEDIMENT CONTROL

Inlet Protection

- Grated Inlet, Curb Inlet, Area Inlet Protection

Ditch Checks

- Triangle Silt Dike
- GeoRidge

Perimeter Protection

- High and Low-Porosity Silt Fence, Straw Wattles, Silt Socks
- Safety Fence

Flocculants & Water Treatment

- Polymer-Based & Natural Flocculants

Sediment Basin Skimmers

Dewatering Bags

Trackout Control

- FODS
- Rumble Grates

Turbidity Curtains

EROSION CONTROL

Basic Hydraulically Applied Mulches

- Wood
- Paper
- Blends
- Straw

High-Performance Hydraulically

Applied Products

- BFM
- FGM
- Additives & Tackifiers

Temporary Erosion Control Blankets

- Coir & Jute Mat/Nettings
- Short-Term ECBs
- Extended-Term ECBs

Permanent Erosion Control Blankets

- Turf Reinforcement Mats
- HP-TRMs
- Anchor Reinforced Vegetation System

Structural BMPs

- Transition Mats
- Geoweb Cellular Confinement
- Composite Vegetated Armor System
- Flex MSE Vegetated Wall System
- Articulated Concrete Block
- Gabions
- Grout-Filled Geotextile Mats

Vegetation Establishment

- Native Seed & Turf Seed
- Fertilizers
- Organic Soil Additives
- Stratavault Soil Cells

STORMWATER MANAGEMENT

Water Quality

- Inlet Filter Boxes
- Pre-Treatment Chamber
- Nutrient Separating Baffle Boxes
- High-Flow Biofiltration Media
- Hydrodynamic Separators
- Stratavault

Water Quantity

- Modular Underground Storage Systems
- Chamber Detention Systems

Drainage

- HDPE Swale Liner
- Pipe & Fittings
- Drainage Composites
- Strip Drain

Inlet Structures

- PVC
- Drain Basins, In-Line Drains
- Landscape

Permeable Pavers

- Permeable Articulating Concrete Block
- Grass Pavers
- Gravel Pavers
- Concrete Pavers

SPECIALTY

Natural & Synthetic Coir Fiber Logs

Vegetated Reinforced Soil Slopes

Soil Anchors

Root Barrier System

AquaBlok

Muscle Wall

We are full line distributors of construction materials for all project types. Contact us for assistance with a project. From specification and development to installation and completion, we're here to help with all of your site solution needs.

GEOSYNTHETICS | EROSION CONTROL | STORMWATER MANAGEMENT
SEDIMENT CONTROL | REVEGETATION & SOIL AMENDMENTS