AquaBlok 2575FW

General Description
AquaBlok 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 high-swell sodium bentonite coating is utilized (Figure 1) with varying percentages of additive (bentonite) layer by percent of total weight.

Figure 1. Configuration of AquaBlok-coated particle.

AquaBlok 2575FW is a freshwater formulation which is 25% Bentonite by weight based on the total quantity of material used in production. This product will provide a low permeability seal in the water without mechanical compaction.

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

Bentonite: Powdered – Approximate 200 Mesh
* Bentonite Clay: High swell Wyoming Sodium Natural Mineral (Montmorillonite)
* Light Grey Powder; Odorless
Manufacturers – Product Designation
* Bentonite Performance Minerals – Barakade Standard
* Others that are deemed to meet the manufacturer specification
* Formulations Range from 25 –35% by weight (average)

Binder: Cellulosic polymer

Permeability: 1 x 10\(^{-7}\) to 1 x 10\(^{-9}\) cm/sec

Dry Bulk Density: 75 – 85 lbs/ft\(^3\)