

# AquaGATE<sup>+</sup> PAC

## Background

AquaGate+PAC (Powdered Activated Carbon) is a patented, composite-aggregate technology resembling small stones typically comprised of a dense aggregate core, clay or clay-sized materials, polymers, and fine-grained activated carbon additives.

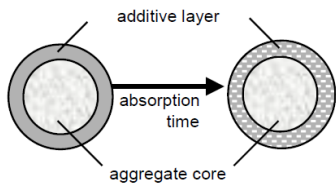


Figure 1. Configuration of PAC-coated particle.

AquaGate+PAC 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
Clay:	Bentonite (or montmorillonite derivative) * Typically 5 – 10% by weight
Activated Carbon:	Powdered <ul style="list-style-type: none"> <li>○ 99% (minimum) through 100 mesh sieve</li> <li>○ 95% (minimum) through 200 mesh sieve</li> <li>○ 90% (minimum) through 325 mesh sieve</li> </ul> * Typically 5% by weight (+/- 25%)
Binder:	Cellulosic polymer
Permeability:	$1 \times 10^{-3}$ to $1 \times 10^{-5}$ cm/sec
Dry Bulk Density:	70 – 80 lbs/ft <sup>3</sup>
Moisture:	10 – 12% (maximum)



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