

LOSING YOUR LAKE?

STOP THE LEAKSM



PONDSEALTM works without drawdown

PONDSEAL offers reliable bentonite clay delivery through water creating an impermeable seal to stop leaks in ponds and other waterways. The product's weight and structure allow each composite particle to sink and self-compact, adding physical integrity to the resulting sealant layer. Once a water body is determined to be leaking, traditional techniques limit the remedy options. Unlike with other bentonite-based alternatives (e.g. powders, chips, pellets), PONDSEAL will not drift or dissipate, so the material is certain to go exactly where you place it and where you need it. Appropriate applications include ponds, lakes, reservoirs, canals, dams, and more.

PONDSEALTM simple & effective

PONDSEAL utilizes a dense aggregate (limestone) core wrapped in powdered bentonite clay to dependably deliver a sound seal to any area prone to or experiencing water loss. The product is made from the same high quality Wyoming sodium bentonite used in landfills and other demanding sealing applications. Due to the extreme low permeability, internal weight (density), and expansive characteristics of this novel composite particle, each individual "pebble-like" unit swells into adjacent particles to produce a uniform and durable layer – stopping the leak at its source.

PONDSEALTM nature's duct tape

Applications of PONDSEAL extend well beyond "liner" installations. While a veneer of the material blanketed over sand, gravel, or stone is an effective means to fortify the bottom or side slopes of a basin (without the need for feet of compacted, local clay), it is the product's versatility that has led to the nickname "nature's duct tape." From an insurance anti-seep around pipes and control structures to a plug for animal burrows and remnant field tiles to a structurally stable, stand-alone backfill in a cut-off wall (as reinforcement for a dam or earthen berm), the ways in which PONDSEAL can be used are seemingly bound only by the creativity of those confronting seepage issues.

Use PONDSEAL for reliable bentonite clay delivery
and put an end to leaking waterways.

▶ **Targeted placement**
no waste, just results

▶ **Technically effective**
extremely durable and
structurally stable

▶ **Simplifies installations**
reduces project costs by saving
time and labor

▶ **Highly versatile**
for leak prevention and repair

Contact AquaBlok, Ltd. or our growing network of distributors for more information

Distributed by: Cascade Geosynthetics 3610 N. Suttle Road, Bldg B Portland, OR 97217 Phone: (971) 339-1020, www.cascadegeos.com

Stop the LeakSM
PONDSEALTM

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Please Note: PONDSEAL is also offered under
the name AquaBlok® 2080FW for sealing in a
broad range of settings and circumstances.



Stop the Leaksm PONDSEALTM

Technical Challenge: Many man-made waterways, independent of size and function, are constructed in permeable or marginal soils that are not ideally suited to reliably hold water. Even when basins are properly constructed from the onset, in generally sound – i.e. clay-rich – substrates, a variety of environmental factors (e.g. repeated freeze/thaw cycles, prolonged desiccation, underlying seams of sand or gravel, etc.) can compromise an earthen basin – causing water losses over time. Structural failures and/or construction oversights (e.g. a faulty control structure or a neglected but hydrologically connected agriculture tile) can also significantly increase the probability of leaks and excessive water loss.

Preventative measures can be time-consuming, labor-intensive, and cost prohibitive. Once a water body is determined to be leaking, remedy options can be limited by traditional techniques and site conditions (especially in standing water). Many professionals advise that a basin must be completely drained to effectively repair a compromised seal, often a costly and daunting endeavor. No single product or technique solves all problems in all situations – versatility is crucial when matching the challenge with the proper solution.

Product Description: PONDSEAL or AquaBlok 2080FW addresses leaks by reliably delivering a proven natural sealant to areas vulnerable to water loss. The product consists of three primary components – premium sodium bentonite, a limestone aggregate core, and binding polymers. Collectively, this “composite particle” typically ranges in size between 1/4” and 3/8” in diameter and is “pebble-like” in appearance and behavior. PONDSEAL is made completely of natural materials and is non-toxic to a waterway’s ecology.

Product Function: If the source of the leak (or potential leak) is defined, PONDSEAL can be blanketed over the problem area by applying a one to two inch layer of dry product either on dry soil (prior to inundation) or through standing water. When applied through the water, individual particles will rapidly sink to the bottom without drift or clay loss. Particles hydrate and expand when placed in direct contact with water, forming a uniform protective barrier. Neither physical blending with resident soils or mechanical compaction is necessary to achieve a consistent seal – simplifying handling and reducing labor. Additional material can always be added to augment an initial application.

Technical Advantages: Unlike with other bentonite-based alternatives (powders, chips, pellets), PONDSEAL offers both reliable delivery to a target site and the density to “self-compact” (adding structural integrity). The product will gradually dry when exposed to the atmosphere for prolonged periods, but will re-hydrate and “self-heal” an infinite number of times as water levels fluctuate (or if the material is punctured or cut). PONDSEAL is erosion-resistant and can be further fortified using an “armor layer” of sand, stone, or gravel (especially in areas of high velocity – e.g. direct exposure to sustained currents, prop wash, etc.).

Application Techniques: When the area to be sealed is small and targeted (e.g. around a pipe or when used to fill an animal burrow), PONDSEAL can simply be installed by hand. For larger areas, the material can be placed directly from bulk shipping bags or from a protected stockpile using a wide range of standard machinery (e.g. front end loaders, excavators, stone slingers, conveyors, and other readily available construction equipment).

	Target Product Thickness (inches)					
	0.75	1.0	1.5	2.0	2.5	3.0
dry	0.75	1.0	1.5	2.0	2.5	3.0
hydrated	1.4	1.8	2.7	3.6	4.5	5.4
lbs/sq. ft.	5.2	6.9	10.4	13.8	17.3	20.8
Target Area (square feet)	PONDSEAL needed (50-lb Bags or Tons)					
100	10	14	20	27	34	40
250	25	34	50	67	84	100
500	50	67	100	3.5	4.2	5
1,000	2.5	3.5	5	6.7	8.4	10
10,000	25	33.5	50	67	83.5	100
50-lb Bags						
Tons (packaged in bulk bags)						

Packaging & Pricing: PONDSEAL is available in a variety of packaging options including 50-lb bags, for manual placement, and bulk super sacks (2,400-lbs each), for larger installations. For very large projects, product can be sent by bulk container or even be manufactured on-site. PONDSEAL is comparably priced relative to other traditional bentonite products. Contact AquaBlok or our growing network of distributors for more information or to place an order.

The PONDSEAL Solution: PONDSEAL utilizes a dense aggregate (limestone) core to deliver extremely high-quality sodium bentonite clay to areas that are actively leaking and/or otherwise prone to seepage. This novel composite particle’s inherent low permeability, considerable weight (density), and robustly expansive properties allow each individual “pebble-like” unit to swell into adjacent particles, resulting in a uniform and durable layer. Whether as preventative insurance (during construction) or as a repair strategy (after water loss is observed), PONDSEAL is a versatile tool to dependably “stop the leak.”

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