

Phosflow™



Adsorb phosphorus from flowing
freshwater systems with Phosflow™



petwatersolutions.com





Phosflow™

Environmentally safe solution for flowing water remediation

Phosflow™, developed with the U.S. EPA under a Cooperative Research and Development Agreement (CRADA), adsorbs phosphorus from water upon contact. It is a simple process that is sustainable and environmentally friendly.

This pelletized product is made from naturally occurring and sustainable mineral materials. It is non-hazardous, insoluble in water and non-toxic to aquatic plants and wildlife.

It can be implemented as a filter media to remove phosphorus from a variety of environmental matrices such as lakes, streams, drains and channels. It can also be used in wastewater effluents including municipal, industrial, and agricultural wastewaters.

Phosflow™ can be packaged into a variety of vessels and chambers, as well as water permeable containers such as boom netting, gabions and filter baskets, depending on application. This product has high phosphate adsorption capacity (~ 81 mg/g), long service life, and once saturated, it can potentially be recycled as a soil amendment.

Phosflow™ is highly complementary to Phoslock Environmental Technologies' (PET) own patented technology, Phoslock®, and can be used in conjunction to provide a long-term solution to control phosphorus pollution in freshwaters.

Affordable, Simple, Effective

Phosflow™ is versatile and has been used in a variety of applications to capture excess phosphorus from water. After collecting information on parameters such as water volume, flowrate and phosphorus concentration, our team can recommend a solution to meet your water quality goals. When phosphorus in flowing water is the problem, Phosflow™ is the solution.



MUNICIPAL WASTEWATER

Consistently meet phosphorus discharge limits in continuous flow or batch wastewater treatment processes.



WATERWAYS

Capture phosphorus before it reaches our waterways and negatively impacts the water quality.



STORMWATER

Retrofit existing baffle boxes, detention basins, and other stormwater infrastructure, as well as design new systems with Phosflow™ to address phosphorus pollution.



LIVESTOCK RUNOFF

Reduce phosphorus runoff reaching surface and groundwater from animal waste.



AGRICULTURAL RUNOFF

Capture excess phosphorus from nonpoint agricultural runoff.

Product properties

Adsorption Capacity

81 mg/g

Bulk Density

38.6 lb/ft³

Particle Size Range

2.3 - 6.3 mm

Color

Off-White



PhosflowTM

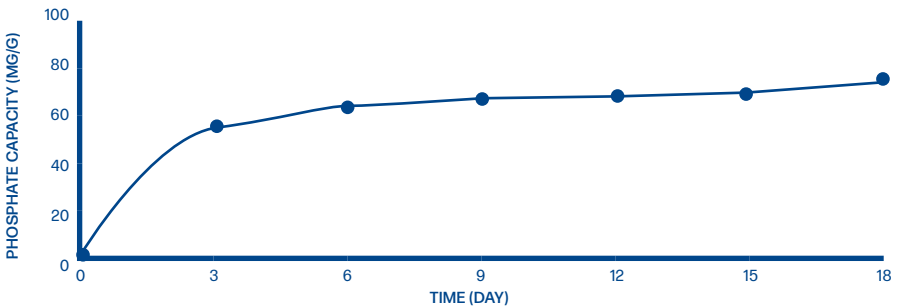
Capacity

At 80% capacity:

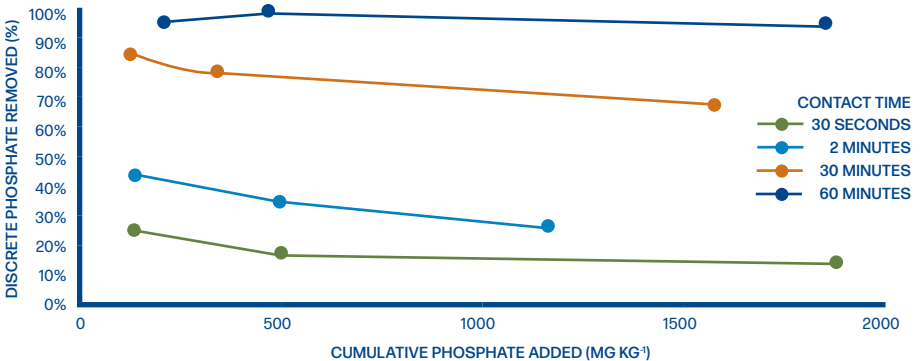
15 lbs of Phosflow™ captures 1 lb of phosphate

15.1 kg of Phosflow™ captures 1 kg of phosphate

PHOSPHATE CAPACITY



DISCRETE PHOSPHATE REMOVAL BY PHOSFLOW™ AS A FUNCTION OF CUMULATIVE PHOSPHATE LOADING SHOWN UNDER DIFFERENT RETENTION TIMES



*30 second and 2 minute experiments were performed in laboratory conditions, whilst 30 and 60 minute experiments were performed in field trials. Therefore these two sets of results shouldn't be directly compared with each other.

**When used as directed



World Leaders in Water Remediation

Phoslock Environmental Technologies (PET) is a global leader in the treatment and remediation of freshwaters and help to improve water quality in the face of environmental and economic challenges relating to phosphorus pollution.

To learn more about the difference our products can make to freshwaters, visit petwatersolutions.com. You can also contact us at enquiries@phoslock.com.au



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