

Passive Skimmer

Description

The Smart Sponge® Passive Skimmer is designed to absorb hydrocarbons by floating directly on the water. They are packaged in flexible mesh containers and can be easily linked together to form a protective line of defense. The Smart Sponge absorbs the hydrocarbons turning them into an inert stable solid that does not leach or leak the absorbed hydrocarbons. The Smart Sponge polymer absorbent bonds the hydrocarbon contamination to the matrix of the polymer which prevents leaking. Passive Skimmers can be used to permanently or temporarily remove oil from catch and storm basins or other forms of still and moving water.

Frequent Applications

- Oil/Water Separators
- Wet Wells
- Clarifying Chambers
- Hydrodynamic Separators
- Trench Drains
- Marine Fueling Locations
- Commercial Fuel Distributor Facilities
- Gas Stations
- Parking Structures
- Metal Recycling Facilities
- Airports

Best Management Practice (BMP)

The Passive Skimmer with Smart Sponge meets or exceeds Stormwater Best Management Practices (BMP). AbTech offers non-point source pollution prevention and potential for long-standing remediation.

Installation

Installation of Passive Skimmers requires no tools. Thread a rope lanyard or other suitable material to the grommets or through the center handle and attach the free end to an available stationary structure.

Maintenance

The Passive Skimmers should be inspected frequently removing the solids that collect in the top of the skimmer. This can be done by hand or vacuumed out. When the Smart Sponge in the Passive Skimmer turns grey, brown or black on the top of the unit, as well as on the bottom of the unit, it is time to replace the Passive Skimmers.



Applicable Technology	Targeted Contaminant
Smart Sponge	Hydrocarbons
Smart Sponge HM	Heavy Metals, Phosphorus and Hydrocarbons

Typical Applications	Product Life Cycle*
Catch Basins	Up to 6 months
Clarifying Chambers	Up to 3 months
Hydrodynamic Separators	Up to to 1 year
Oil/Water Separators	Up to 3 months

*Field application performance will vary.

Amount of oil absorbed

Stormwater	Standing water
Up to 3lb./1lb.	Over to 5lb./1lb

Disposal

The Smart Sponge samples saturated with hydrocarbons both in the lab and in the field have been tested according to the EPA's Toxicity Characteristic Leaching Procedure ("TCLP"). These tests show that Smart Sponge is a "non-leaching" (i.e., non-detect or "N.D.") product. As a result, Smart Sponge technology can afford many cost effective and environmentally friendly disposal options:

- Waste-to-Energy Facilities - A specialized segment of the solidwaste industry has used spent Smart Sponge media as an alternative fuel in the production of electricity.
- Cement Kilns - This industry has used the spent Smart Sponge media as an alternative fuel in the production process of Portland Cement. This process is considered a beneficial reuse of waste products. The BTU value of spent Smart Sponge media is consistently above the average acceptable levels set for this high temperature.
- Landfills - As discussed above, spent Smart Sponge products have been classified as a solid waste and have been accepted at Subtitle D Landfills.

Note: User responsible for proper disposal of the media

