



Barrier Boom

Versatile and Proven Solutions for Secondary Containment Compliance

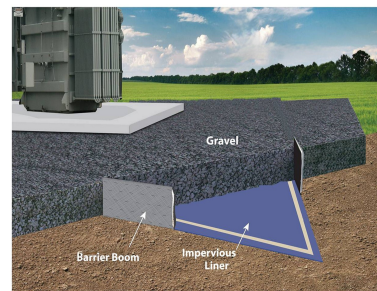
Barrier Boom is a proven Secondary Containment System designed to allow the unimpeded flow of water during normal rainfall or snow melt events, but becomes an impervious barrier in the event of an oil release. Barrier Boom is constructed from non-woven geotextile materials filled with Oil Solidifying Polymer Granules, a proprietary blend of several USDA food-grade polymers, and backed with Agent-X, a non-woven geotextile material with embedded within the fabric. Barrier Boom has become the accepted solution for SPCC Secondary Containment by professional engineers across the nation.

Applications:

Barrier Boom is the ideal solution for providing Secondary Containment as required by 40 CFR 112.7 (C) SPCC. Barrier Boom has been installed and PE Certified more than 8,000 times over the past decade in substations for the electric utility industry and other applications around the world. Applications for Secondary Containment with Barrier Boom include Wind Farm pad-mounted transformers, oil-filled equipment storage areas, bulk fuel and oil storage areas all without the use of concrete walls, sump pumps, and oil-water separator systems. Barrier Booms can be used with clay and vinyl liner systems in non-impervious subsurface applications.

Specifications:

- Water Flow Rate: a minimum of 11-19 LPM per sq. ft. of material with one foot of head pressure
- Hydrocarbon flow rate: 0 LPM (100%containment)
- Solidifies approximately a half gallon of oil per square foot depending on oil viscosity
- Service life of installed product: Life of equipment
- UV resistance of 70%
- Oxidation resistance of 80%
- Contains 12 to 16 oz. of loose polymers per square foot



Back-to-grade application



Large above ground storage site applications



Start



Finish



Wind Farm pad mount



Benefits:

- Meets SPCC requirement 40 CFR 112.7(C)
- Barrier Boom is designed to meet your site's needs
- Ease of installation: typically completed in one day
- Attaches to impervious liners for full containment
- No special tools required
- Your equipment remains fully energized
- Little or no maintenance require
- Reduces containment cost by 50% to 80% (on average) over alternative methods
- Eliminates the need for concrete walls, sump pump systems, oil-water separators, and pits

"We were impressed with the product because it is a relatively low-cost alternative to other products. BCI was estimated to provide a 50-75% cost savings over equivalent solid concrete containment. We have been very pleased with the product and the supplier."
Jude Beyerle, Group Leader, Substation Engineering, E. On U.S.



Dike installation for oil and rainfall requirements.



Pad mount for smaller containment.



Above Ground Bund



Reline and Internal Filter Wall



Gabion Bund Wall

The inside wall of our Barrier Boom is a basic geotextile made from a patented blend of recycled synthetic materials that is both hydrophobic and oleophilic. The material wicks the oil throughout its fibers and has a tremendous load capability per square inch.

Oil Solidifying Polymers is a non-toxic, nonhazardous, and environmentally friendly blend of cross-linking polymers that encapsulates transformer oils into a cohesive rubber-like mass on contact.



Agent-X makes up the outer wall of the Barrier Boom. It is made of two layers of a geotextile with our Oil Solidifying Polymers laminated between the layers. The material itself has a tremendous filtering effect and keeps oil from passing through this unique final outside wall.

A unique quilting pattern (not shown) keeps the Oil Solidifying Polymers from shifting during handling and installation.

Barrier Boom Availability:

Barrier Boom is manufactured to the specific requirements of the containment site. In most cases the Barrier Boom can be delivered within two to four weeks from date of the order.

Environmental Insurance Policy:

Basic Concepts carries a \$7 Million USD Pollution and Product Liability insurance policy on BCI Barrier Boom.