PATRIOT
GEOSYNTHETICS

PATRIOT TYPE 1 DOT FLOATING TURBIDITY CURTAIN

Patriot Type I DOT Floating Turbidity Curtains are designed to meet or exceed state DOT requirements for calm water silt and turbidity control. Used in roadside projects, ports, marinas, ponds, lakes and harbors, these barriers surround projects and help to contain materials until they have enough time to settle.

APPLICATIONS:

- Marine Construction Sites
- DOT Road Repair
- Small Pond or Lake Work Activities
- Marinas & Harbors
- Calm Water Silt & Turbidity Control

ADVANTAGES

- Economical Silt Control
- Easy to Connect & Install
- Helps Keep Sites in Compliance
- Effective Control in Shallow or Slow Moving Areas

KCS Kale Construction Supply

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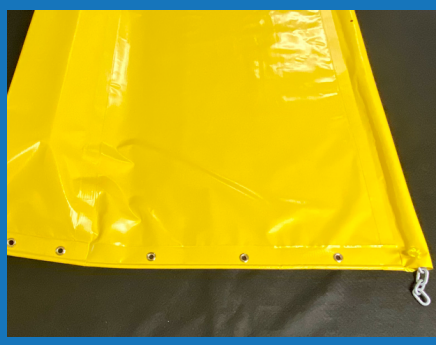
Constructed using robust and reliable components, these barriers actively work to contain silt, turbidity and displaced particles around your site. Type 1 curtains are typically recommended for use in water locations with calm conditions. Accessories are an important component to the installation of any silt curtain or barrier in order to maximize effectiveness.

IMPORTANCE OF ANCHORING

Anchoring and anchor kits are one of the most important accessories for sites dealing with moving currents, waves, tides or other site factors. Having the right anchor pattern, installation design and anchors can significantly influence, reduce and redistribute loads placed on your barrier.



ACCESSORIES:

- ✓ Anchor Kits
- ✓ Marker Lights
- ✓ Buoys
- ✓ Tow Bridles

HOW IT WORKS:

The main function of a silt screen or turbidity barrier is to control the dispersion of suspended silt and to improve settling times (Stokes Law). During a construction project, silt and other materials often become suspended in the water area. Curtains are placed within the water to create a confined zone of contained materials. Contained areas allow marine contractors to stay within Federal and State Clean Water Act and NPDES Phase II regulations. In turn, this helps sites to avoid fines and allows projects to be completed on time. Please note, turbidity curtains are designed to act as a temporary area that increases the amount of time solids have to settle back down to the bottom of the area. They will not act as dams or walls.

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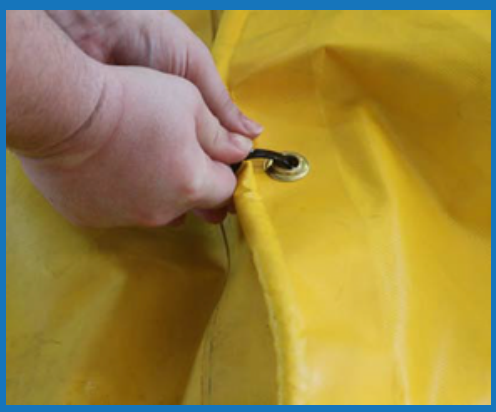
HOW TO KNOW WHICH CURTAIN MODEL AND ANCHORING STRATEGY IS RIGHT FOR YOU:

TURBIDITY CURTAINS IN SALT WATER:

When using the Type I Silt Barrier in salt water areas, consideration should be given to the tension cables and connectors. The following component adjustments are recommended for any location with salt water; Stainless Steel Cable and Zinc Anode Connectors upgrade, Stainless Steel Chain upgrade, or a combined Cable/Chain upgrade. For short term projects, galvanized components can be used for a period of up to 12 months.



FABRIC CONSIDERATIONS:

Alternative fabrics are also available for extended deployment in areas with high pH levels, high temperatures, low temperatures or in areas where chemicals are present.

PERMEABLE VS. IMPERMEABLE:

Permeable Type I Silt Barriers are most commonly used when they are either specified in a site project or when the curtain will be dealing with a significant amount of water pressure. Use of the bottom filter panel can help reduce pressure on the curtain by allowing water to continue to the flow through the curtain.

WATER CONDITIONS

Consideration of site and water conditions is an important step for any location looking to control silt in a moving water body. Due to the current and waves in these areas, additional pressure is placed on the barrier during use. In order to accommodate and contain silt in these conditions, it is important to consider the following:

- Water Velocity
- Waves (height, frequency)
- Wind Speed and Direction
- Tides
- Soil Type (contaminated?)
- Project Duration

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