



## **Concrete Cloth Introduction**

### **What is Concrete Cloth ?**

Concrete Cloth™ is a flexible concrete impregnated textile fabric that is delivered in dry rolls that resemble carpeting on rolls. Once the Concrete Cloth is placed onto the desired project area and secured it is easily hydrated whereupon it hardens within 48 hours into as much as a 6,500 p.s.i. concrete shell.

### **What are some applications for Concrete Cloth ?**

Anywhere that a hard shell would benefit the stability of a slope or slope edge. (*Erosive areas above creeks and waterways, severely riled slope faces, areas where water influences could cause catastrophic washout in storm type events*) Anywhere that an impermeable covering is desired to prevent water or fluid from entering the soil beneath the Cloth. (*Earthen ditches and swales, water or slurry containment ponds or areas, sediment and refuse containment basins*) Anywhere that containment is necessary to prevent intermingling of fluid types for short or long term issues. (*Areas where highly acidic runoff must be contained like mine tailings pile runoff or at certain landfills*) Anywhere that installed hardscape needs reinforcing or upgrading (*Older Steel Culverts whose floors have rotted, flashing to foundations or hard fixturing, badly eroded outlet areas below waterways*) Anywhere that strong reinforcement is needed at minimal cost (*gabion reinforcement, converting a temporary sandbag wall to a permanent retaining structure by draping Concrete Cloth*) Anywhere that weed abatement needs to be permanent. (*Parks, trail edges, fencelines, guardrail areas, building perimeters*)

### How and Where is Concrete Cloth Manufactured ?

Concrete Cloth™ is manufactured in the U.S. by Milliken Industries in their LaGrange, Georgia production facility. Milliken has installed extremely specialized machinery to FULLY impregnate the 3 dimensional fiber textile matrix which is created on top of a PVC coated fiber matting. After the desired material thickness has been achieved, (5mm, 8mm or 13mm) then a finely stitched Polyester fiber surface matting is attached over the top of this 3 dimensional textile matrix. The completed Concrete Cloth is then placed on specially reinforced corrugated rolls and readied for shipping inside extremely thick plastic shipping/storage bags.

### How should Concrete Cloth be stored ?

It is most important that Concrete Cloth be kept in a dry area and away from direct sunlight (which can dry out the plastic shipping bags making them brittle and susceptible to cracking) Stored in this manner should allow Concrete Cloth an approximate 2 year stored shelf life. Significant degradation may occur after that time

### What type of fluids are necessary to hydrate the installed Concrete Cloth ?

Any available water is suitable to fully hydrate these textiles. Concrete Cloth will fully hydrate with Salt Water, highly acidic water sources and in completely submerged fluid conditions. It takes about 1.5 gallons of saturated fluid per each square foot of Concrete Cloth to achieve full hydration. Concrete Cloth begins to “setup” or cure within 2 hours of fluid being introduced to it. It will be fully cured and at it’s final hardness after 48 hours.

### What type of fasteners are needed for installing Concrete Cloth?

Landscape nails or staples can be used over bare soils. Self tapping Concrete Screws can be used over existing concrete areas. Commercial caulking on seams or overlaps work well.