

Project Info

-  02 / 10 / 17
-  CC8™ Bulk Rolls
-  1,200sf
-  Transverse layers
-  New Orleans, LA
-  Southeast Louisiana Flood Protection Authority - East (SLFPA-E)
-  Lined ditch to divert flood waters away from low lying area to a nearby bayou.



Completed project 5 years after installation

In 2017, work was carried out to install 1,200 sf of Concrete Canvas CC8™ to provide erosion control to a ditch that was being used to relieve a flood prone area and convey stormwater to a nearby bayou in New Orleans, LA.

The ditch had already been installed to convey storm water from a low lying area to a nearby bayou. However, due to heavy rainfall and water run off from the service road above, the ditch was becoming increasingly susceptible to erosion. To prevent the ditch from eroding and the area from flooding further, South Louisiana Flood Protection Authority-East (SLFPA-E) looked at a number of alternatives to rectify the issue including conventional concrete. CC8™ was chosen as the preferred solution due to its ease and speed of installation, the need for less machinery and man power, and the long-term zero maintenance requirement.

CC8™ is a [Type II](#) GCCM as defined in [ASTM D8364](#). It is suitable for use on soil subgrades and was chosen for this project to address the abrasion, wear and loading requirements. CC8™ is also [BBA](#) certified with durability in excess of 120 years when used in erosion control applications.

*Geosynthetic Cementitious Composite Mat



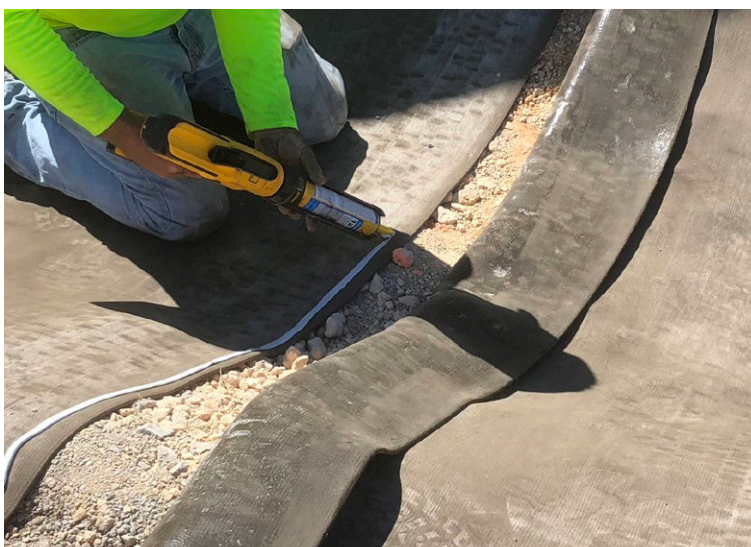
Ditch re-profiled using excavator



Bulk Rolls of CC8[™] delivered to site



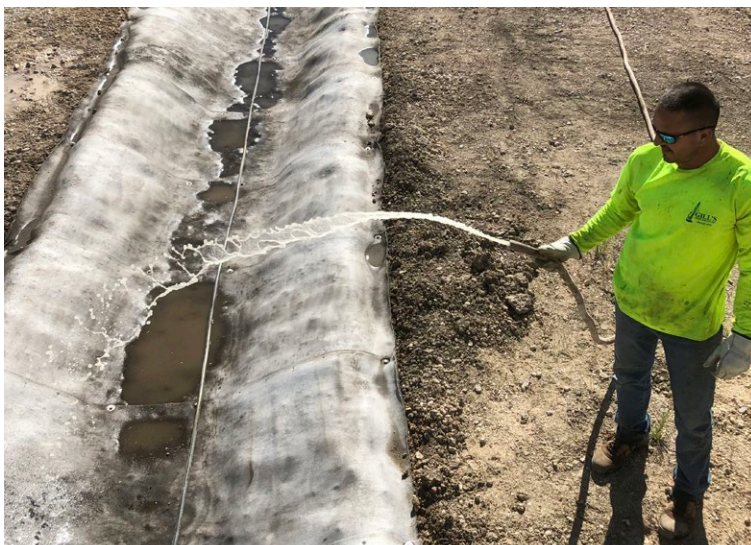
CC8[™] material rolled out and cut



Adhesive sealant used to reduce seepage



Overlaps secured with stainless steel screws



CC8[™] being hydrated



Completed installation works

Before the installation of CC8™ commenced the ditch was first re-profiled using an excavator to create a uniform surface. Bulk Rolls of CC8™ were put onto a spreader beam and were lifted into position with the use of an excavator. Once in position the CC8™ material was rolled out and cut into 10' lengths. Each layer of the material was then laid transversely across the ditch with the overlaps laid in the directional flow of water. The leading edges of the material were secured in anchor trenches located at the crest of each side of the ditch. To prevent the overlapped layers of CC8™ from lifting each of the overlap was secured with adhesive sealant and stainless steel screws positioned every 4-inches , 1.2 - 2 inches from the overlapped edge.

After installation was completed the CC8™ material was hydrated using a portable water tank which was brought to site. An excavator was used to lift the tank and a hose attachment was used to spray the material. SLFPA-E were extremely impressed with the material and the speed in which it was installed.

Since its installation in 2017, the CC8™ material is still performing . After a site visit in November 2022, SLFPA-E is still impressed with the results of the project 5 years after it was initially installed. Now the client is considering CC™ for another project at a different location.

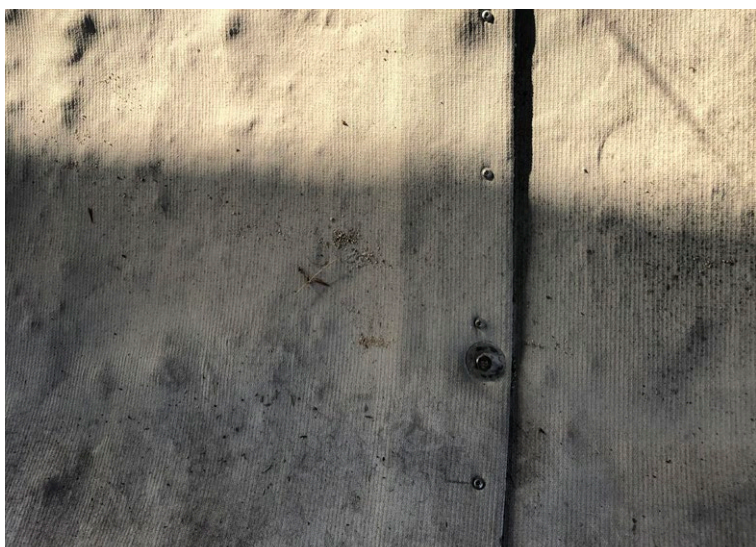
5 YEARS AFTER INSTALLATION



Ditch channel still functioning as expected



Backfilled anchor trenches



Overlaps secured and continuing to function



Ditch has not required maintenance



CC8[™] still functioning to ASTM D8364 standards