

Project Info



12 / 05 / 2014



CC8™ Batched Rolls



150sqm



Transverse layers



A66(W) County Durham, UK



A-one+ Integrated Highway Services (Area 14)



CC8™ used to prevent undercutting of the A66 Highway



Completed installation

In May 2014, Concrete Canvas® GCCM* (CC) was used to line a drainage ditch to prevent erosion underneath the nearby A66 highway. It was not possible to stop or divert the water due to weather conditions so a solution that could be installed in a live water course was paramount. At the top of the ditch there was a termination of a culvert which needed to be accommodated.

Installation was carried out by A-one+ Integrated Highway Services (Area 14). An excavator was used to re-profile the ditch and culvert before 30 batched rolls of CC8™ were delivered to site. The excavator located the batched rolls at sections of the ditch as required before they were unrolled by hand into position. The CC was laid progressively upstream, and pegged at the edges whilst allowing the live water course to flow under the material. Once CC had been installed along the length of the ditch, a concrete sandbag header wall was built on top of the last CC layer. This would allow the water from the culvert to flow over the CC as intended. The overlaps were mechanically jointed with screws at 200mm centres; the joints weren't sealed so as to create natural weep paths allowing water ingress into the ditch and preventing the build-up of hydrostatic pressure behind the CC. Post hydration, the ditch anchor trenches along the crest were backfilled to secure the CC in place and to provide a neat finish.

150sqm of CC8™ were installed by 6 people in 2 days during torrential rain and in a live water course.

"We were delighted with the results and the job ran smoothly... We found the CC easy to install even in difficult periods of bad weather and with us not being able to stop the flow of water. I would definitely recommend this product and most certainly use it again"

Paul Wiles,

A-one+ Integrated Highway Services (Area 14) works supervisor

*Geosynthetic Cementitious Composite Mat





Site before works began



Grading



Batched CC8™ being unrolled



Allowing the live water course to hydrate the CC



Concrete sandbag header constructed on top of the CC



The finished project