

## Project Info



24 / 06 / 2014



CC5™ Bulk Rolls



800sqm



Longitudinal



Colleferro, Rome, Italy



TESECO



CC5™ used to line 800 linear metres of ditch under a tight deadline.



Completed installation

In June 2014, Concrete Canvas® GCCM\* (CC) was used to line 800 linear meters of ditch at a landfill site in Colleferro, Rome, Italy. If the contractor did not complete the works in 2 days or less they would face financial penalty. It was not possible to install the alternative precast concrete channel that was considered in the limited time frame available.

Installation was carried out by TESECO. The landfill had been capped with 2 hills, about 4m high with a 32-34 degree gradient and there were issues with the water pooling in flatter sections at the base of the hills and infiltrating the slope therefore risking slip. Due to delays in completing the capping the contractor was left with just 2 days to finish the works or they would have had to pay a fine to their client. The ditch was excavated to a profile of 0.9m wide and 0.3m deep, allowing it to be lined with 1 longitudinal layer of CC5™. Bulk rolls of CC5™ was delivered to site and unrolled along the ditch using an excavator and a spreader beam. Once unrolled the CC was fixed to the substrate using ground pegs every 2m and was screwed every 200mm where CC layers were overlapped. Where junctions were necessary, a knuckle joint was created and screwed. The CC was hydrated by spraying with a hose fed by a bowser.

**800sqm of CC5™ were installed by 3 people in the equivalent of one day, in 28 degrees Celsius.** The speed of installation meant that the contractor avoided financial penalty.

\*Geosynthetic Cementitious Composite Mat







The ditch was excavated



CC5™ unrolled into the ditch



Fixed with screws



3-way junction



Hydration



The finished project