

## Project Info



08 / 08 / 17



CC8™ Bulk Rolls



10,250m²



Transverse layers



Undisclosed, UK



Collins Earthwork



CC8™ was used to provide a drainage channel around the perimeter of pads at a mine to manage rain water runoff from drilling platforms.



Completed section of channel

In August 2017, Concrete Canvas® GCCM\* (CC) was used to provide a drainage channel at a mine in the UK.

The channel was created around the perimeter of the North, South and Lower pads of the site, with the purpose of managing rain water runoff from the drilling platforms. The works were carried out by Collins Earthwork.

Prior to installation, a huge amount of work was done to profile the channels in rocky ground for this area, while on the south and lower pads, the contractor used a lime agent mixed into the soil dug from site to help create an even channel profile. Once the ground preparation had been completed, bulk rolls of CC8™ were delivered to the site.

Installation began on the right top right corner of the North pad. The CC was mounted onto a spreader beam hung from a crane and unrolled across the channel's profile, cut to length using hand tools and secured in anchor trenches using ground pegs. Additional layers of CC were laid with 100mm overlaps which were hydrated prior to being fixed at 200mm intervals, approximately 20-50mm from the edge of the material, using stainless steel screws and an electric screwdriver.

Once the installation process was completed, the CC was hydrated and the anchor trenches backfilled to bury the edges of the material in order to prevent ingress and provide a neat termination.

\*Geosynthetic Cementitious Composite Mat





Panoramic view of the site



Collins carrying out ground works using a digger



Bulk rolls of CC8™ were delivered to site prior to installation



Installation began at the top right corner of North pad



Bulk rolls of CC were mounted onto a spreader beam for installation



*CC was laid transversely*



*Top right corner of North pad following installation*



*Stainless steel screws were used to fix overlaps*



*Edges of CC were secured in anchor trenches using ground*



*CC was hydrated following installation*



*Anchor trenches were backfilled to prevent ingress*



*Completed channel section at South pad*



*South pad termination detail*



*Slope and adjoining channel between North and Lower pads*



*CC installed on slope and channel between North and Lower pads*



*Basin section of channel*



*Completed basin section*



*Completed basin section*

Once work on the North pad was completed, installation on the South pad was carried out following the same process. The project was then completed on a slope and adjoining channel between the north pad and Lower pad, which was extended into a basin-like section, and then away from the site. Each of these sections were lined or protected using CC, with overlaps created so as to face the direction of waterflow. As before, the overlaps were hydrated, then fixed using screws, and edges of the material secured in the anchor trenches using ground pegs before the exposed material was hydrated.

In total, 10,250m<sup>2</sup> of CC8™ were installed in approximately 4 months, with the final stage of installation completed in late December. Due to the works spanning over late summer, autumn and early winter, the installation team experienced dry weather along with rain, snow and cold weather conditions.