

Project Info



15 / 01 / 18



CC13™ Bulk Rolls



240m²



Transverse and Longitudinal layers



Infinity Park, Derby, UK



Eurovia



CC13™ used to line sections of a number of drainage swales next to a new road to prevent erosion and scour



Completed section of installation

Concrete Canvas® (CC) GCCM* was specified by AECOM in January 2018 to line sections of drainage swales alongside a newly constructed road at Infinity Park, Derby.

The project was carried out in stages between January - July 2018 as the new road was built. The aim of the scheme was to prevent erosion and scour from runoff water from the road drainage outlet pipes. The works were carried out by Eurovia for Derby County Council, with input from consultant, AECOM.

A 13mm variant of CC (CC13™) was specified for the project. Prior to the installation, the swales were graded to form the required profile as the swales were new. The material was then delivered to site in bulk rolls and deployed from a spreader beam hung from an excavator alongside the road, and cut to required length using a stihl saw. The lengths were then transported to the swales, laid and a disc cutter was used to cut the material in order to allow it to accommodate the drainage pipes.

The CC was laid both transversely and longitudinally due to the varying sizes of the sections requiring lining, while subsequent layers were jointed using stainless steel screws, and the edges fixed into the substrate using ground pegs. Once installation was completed for each swale, the CC was hydrated and the material edges buried in anchor trenches. A total of 240m² of CC13™ were installed across 8 swales.

*Geosynthetic Cementitious Composite Mat





CC unrolled using spreader beam and excavator and batched road-side



Overlaps were jointed using screws



CC edges captured in anchor trenches using ground pegs



Hydration



Example of transverse layout



Example of longitudinal layout