

Project Info



01 / 08 / 18



CC5™ Batched Rolls



1,200m²



Vertical layers



Moneyreagh, Co. Down,
Northern Ireland



Cameron Landscapes
& Garden Centre



CC5™ used to provide
erosion protection to
slopes of a large pond
used as a golf reservoir

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CENTRE



Pond slopes following CC installation in Moneyreagh, Northern Ireland

In August 2018, Concrete Canvas® GCCM* (CC) was used to provide erosion protection for a pond embankment in Moneyreagh, a small village south of Belfast in Northern Ireland. The pond was originally lined with clay for a golf reservoir, however due to erosion the pond embankment required erosion protection while still allowing the bottom of the pond to remain unlined to reduce the build-up of hydrostatic pressure. Poured concrete had originally been considered but CC was chosen due to its speed and ease of installation and its flexibility in terms of site access, as the installation team were unable to use heavy plant at the crest of the slope.

Prior to the installation, the contractor diverted the water out of the pond using pumps. The side slopes were then excavated to remove any sharp or protruding rocks before laying down crushed stone which was compacted with a Wacker plate to ensure a smooth substrate. 300mm anchor trenches were dug at the crest and toe of the slope with a mini excavator prior to installation.

Once the substrate was prepared, batched rolls of CC5™ were delivered to site before being cut with a disc cutter into 5 linear metre lengths to match the average height of the slope. The CC was fixed within the anchor trench at the crest using steel ground pegs. Subsequent layers of CC were overlapped by 100mm, with the overlaps then jointed using 30mm stainless steel screws. The anchor trenches were subsequently backfilled with topsoil, compacted and seeded. Following installation, a hosepipe attached to a water pump was used to hydrate the material.

*Geosynthetic Cementitious Composite Mat





Pond prior to works



Water pumped from pond



Excavation of embankment



Crushed gravel compacted on slope for optimum substrate



CC overlaps jointed using screws, placed at 200mm intervals



CC secured into crest and toe anchor trenches



CC hydrated at the end of each day



Anchor trenches backfilled and compacted



CC easily accomodated corners of pond



Concrete fillet applied at CC and rock termination



CC lined pond inlet channel



Inlet channel and completed CC installation



Installation was completed in just 3 days

The installation team were impressed by the speed and ease of installation of CC on a site with heavily restricted access. In total 1,200m² of CC5™ were installed in 3 days with a crew of 4 people without specialist training or plant equipment and will provide long-term erosion control for the pond embankment.

Cameron Landscapes & Garden Centre is a family business celebrating 50 years in business this year, more information can be found at www.cameronlandscapes.com.