# CONCRETE CANVAS

## SLOPE PROTECTION



In April 2018, Concrete Canvas<sup>®</sup> GCCM<sup>\*</sup> (CC) was used to provide erosion protection to sections of embankment at a pond in Wilster, Germany. The pond, owned by the local commune of Wilster, was losing water due to badly eroded sections of embankment. The project was carried out as a trial to establish how well CC would perform in this application. The works were carried out by Jens Maag Lohnbetriebe for Amt Wilstermarsch, with material provided by Concrete Canvas Ltd.'s new sales partner, Beco Bermueller.

In preparation for the installation, the contractor removed approximately 150mm of clay topsoil on the sections requiring lining. The substrate was then graded to provide a flat, level surface and an anchor trench was created at the crest.

Once the substrate was prepared, batched rolls of CC8<sup>™</sup> were delivered to site and laid vertically from the crest of the slope to its toe. Subsequent layers of CC were laid so as to overlap the previous by 100mm, with the overlapping layers then jointed using 20mm stainless steel screws. 300mm ground pegs were used to fix the CC to the substrate through overlaps at the crest of the slope. Platipus ground anchors were then used to secure the material through overlaps at the toe of the slope.

Following installation, a hosepipe attached to a water pump was used to hydrate it. A new layer of clay was then used to cover the CC entirely, which will protect the slope from below, preventing further erosion and under-cutting.

\*Geosynthetic Cementitious Composite Mat



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Batched rolls of CC were deploye ed vertically





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Completed section of CC installatior



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A total of 375m<sup>2</sup> of CC8<sup>™</sup> were installed in 7 hours by a team of 4 people with no previous experience of installing CC, and on a site with access limitations.

The trial was deemed a success, and the client was very impressed with the speed and ease of installation. The client is now looking into lining the remaining embankments of the pond using CC in the near future.

