

## Project Info



07 / 12 / 18



CC5™ Bulk Rolls



1600m²



Vertical layers



Al Wathba Wetland  
Nature Reserve,  
Abu Dhabi, UAE



Al Ain Automatic  
Irrigation



CC5™ used to provide  
protection to a slope to  
prevent scour ahead of  
the rainy season



*Completed installation following hydration and backfilling of anchor trenches*

In December 2018, Concrete Canvas® (CC) GCCM\* was used to line sections of embankments on a slope in Al Wathba Wetland Nature Reserve in Abu Dhabi, UAE. A solution was required to provide effective erosion protection to the slope in order to prevent further scour. The project needed to be completed ahead of the rainy season.

Shotcrete was initially considered, but would require specialist equipment and labour as well as extending the installation time which could affect the nature reserve. The works were specified and carried out by Al Ain Automatic Irrigation under ROUSSE Technical Supervision.

Bulk rolls of CC5™ were delivered to site and mounted onto a spreader beam. The CC was positioned at the crest of the slope, with the leading edge fixed using ground pegs before the material was unrolled down the slope. Subsequent layers were overlapped by 100mm and fixed using stainless steel screws at 50mm offset intervals. Once complete, the CC was hydrated three times within the first hour, with 20 minute intervals due to a high rate of evaporation as a result of high temperatures on site.

A total of 1,600m² of CC5™ were installed by 4 people in 5 days, on a limited access site. The client was very happy with CC's ease and cleanliness of installation, and will consider the product for use in future projects.

\*Geosynthetic Cementitious Composite Mat







*Anchor trench prepared*



*CC deployed and captured in anchor trench*



*Material pegged into anchor trench at crest*



*Material pegged into anchor trench at toe*



*Corner detail*



*Anchor trench at crest backfilled using poured concrete*