

Project Info



20 / 06 / 19



CC13™ Bulk Rolls



500m²



Transverse layers



Salalah, Oman



BLC



CC was installed as a pipe protection solution in order to prevent water infiltration and add weight to prevent lifting during flood events



Completed CC pipe protection installation in Salalah, Oman

In June 2019, contractor BLC installed 500m² of Concrete Canvas® (CC) GCCM* on behalf of GPS, Petrofac and Oman Gas Company, with consultation provided by RTConsult.

The installation was carried out on a site in Salalah, Oman, and involved the use of 13mm thick CC (CC13™) as a pipe protection solution. The aim of the project was to prevent water infiltrating the gas pipe as well as to add weight to prevent lifting during flooding.

Previously, the client would send the pipes to India, where they were covered in concrete and returned. However, this was a complex process which involved long waiting times and expense for the client. In comparison, CC13™ could be quickly and easily installed on site by the contracting team, with no requirement for specialist personnel. In turn, this would provide significant cost savings, save invaluable time and fulfil the client's brief.

Prior to installation, substrate and rocks were removed from around and below the pipeline to allow free access for installation. CC was then dispensed from the bulk rolls and cut to required length. Soudaseal adhesive sealant was applied to the pipe surface to ensure intimate contact between the pipe and the PVC on the rear of the material. The ends of each CC length were then overlapped, sealed and secured before three lengths of strapping were added around each section for further reinforcement.

*Geosynthetic Cementitious Composite Mat





Pipeline prior to CC installation



Rocks around pipeline removed for ease of access



CC bulk roll cut to required lengths



A team of 8 carried out the installation



Hydration



Completed CC pipe protection project

Following time for trials on day one, the team of 8 installed 10 linear metres of CC along the 24" pipeline per hour in temperatures of between 28° and 36°C.

In terms of cost, over 40% was saved compared to the current method of wrapping the pipes in concrete then transporting back to the field. The client had also had issues with laying the original concrete-covered pipes as a result of them being too rigid. CC's flexibility prior to hydration, and its ability to be installed in-situ solved both of the client's problems. The cost savings calculated mean they will now be actively looking to use CC on any future works of this nature.