BUND LINING

Project Info

- 31 / 01 / 16
- CC5™ Bulk Rolls
- 3,000m²
- Transverse layers
- Abu Dhabi, UAE
- OQC
- CC5™ was used to prevent the erosion of a pipe protection berm.

Completed installation

In January 2016, Concrete Canvas® (CC) GCCM* was trialled as an erosion prevention method for a pipe protection berm for a gas pipeline in Abu Dhabi, UAE. The bund was at risk of weathering erosion which could have led to the exposure of the gas transport pipe beneath, risking infrastructure and environmental damage. Other conventional methods, such as Bitumen, can quickly degrade under high levels of UV exposure and can have a huge environmental impact. In addition there is risk of wildlife damage, to which CC would be much more resistant. The works were carried out by M/s OQC for M/s GASCO.

The bund was compacted using the bucket of an excavator before bulk rolls of CC5™ were delivered to site. The rolls were mounted onto a spreader beam and hung from plant equipment before being deployed transversely across the berm, with each layer overlapping the previous by 100mm. Sealant was used to increase the impermeability of the overlap and collated screws were inserted at 100mm centres to joint the material. A 3000 gallon water truck was used to hydrate the material. Due to the high temperatures and arid climate, hydration was undertaken hourly.

3000m² of CC5™ were installed in 5 days in high temperatures on a remote site. The client deemed the trial a huge success and is looking to specify CC on similar future projects. CC has many advantages for projects of this nature, such as the low material volume reducing the logistical burden for works on remote locations. The rapid installation rates mean reduced time on site, allowing for a more cost effective installation whilst reducing health and safety risk.

*Geosynthetic Cementitious Composite Mat

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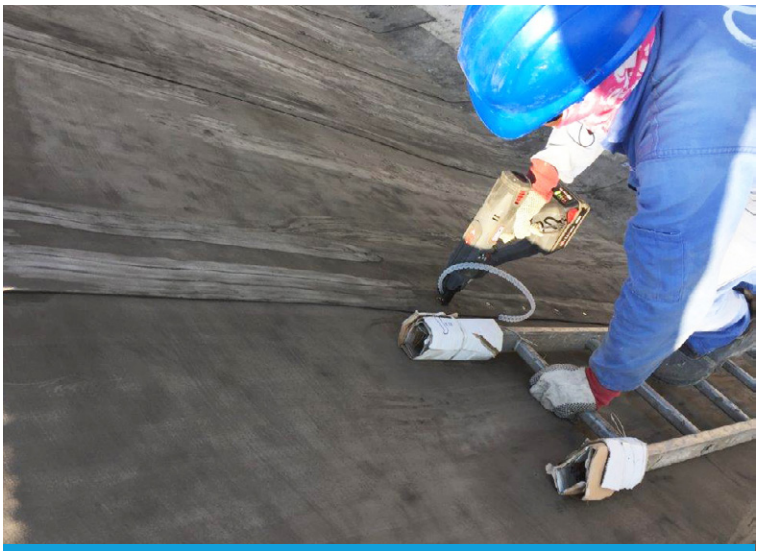
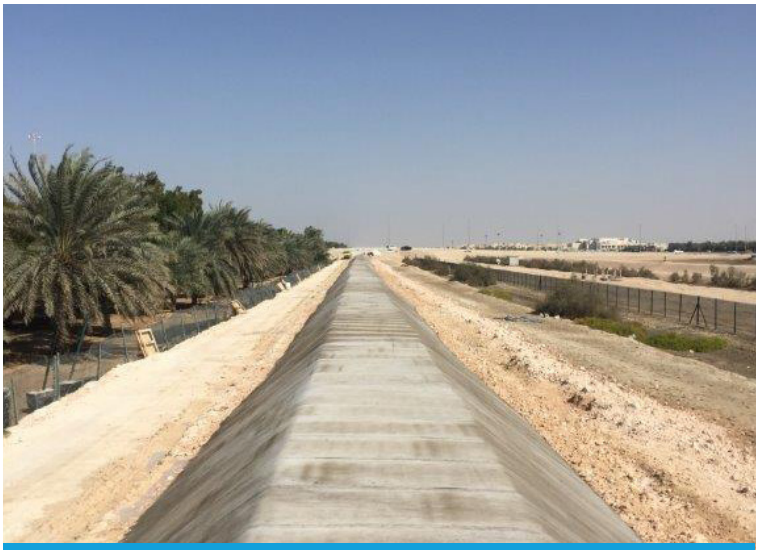
CC deployment



Overlaps screwed at 100mm centres

Bund termination



Looking along apex of bund

Completed project

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