

Project Info



10 / 05 / 2012



CC5 Bulk Rolls



500sqm



Transverse layers



Rustenburg, NW
Province, South
Africa



Concrete Canvas SA



CC used to line a
50 year flood dam
in the salvage yard
of Impala Platinum
Mines in South
Africa.



Completed dam lined with CC5



The dam site was excavated and cleared by an on-site team prior to installation of CC



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In May 2012, Impala Platinum Mining began a project to create a 50 year flood dam in the salvage yard of their mine in Rustenburg, South Africa. The 35m x 15m dam was being excavated to contain excess water in the event of flooding, which could cause serious delays and damage to the mine and surrounding infrastructure. Concrete Canvas (CC) was used as a liner for the dam as an alternative to concrete slabbing, acting as a durable, water-impermeable concrete layer which would stop any stored flood water saturating the soil underneath.

After the preparation team had excavated the dam, 500sqm of CC5 was supplied to the project site in bulk rolls. Basic, readily available hand tools were used on site to cut the CC to the required length, before adjacent layers of CC were taped along the joint on the impermeable side using Very High Bond (VHB) Tape. The CC sections were then laid in place in the dam, pegged along the outer edges, and the joints along the concrete side sealed with Hybriflex, (a UV-resistant, waterproof sealant.) On-site equipment was then used to hydrate the CC.

The installation was very successful. CC was able to be installed in high temperatures, (40°C+) by a team of 10 in just under two days, using basic tools and with very little training. The dam has now been in operation for over a year and has continued to operate efficiently with no leaks or failures. Impala Platinum have noted that CC was easy to handle and install, and provided a far more cost-effective alternative to traditional concrete linings.



The project was completed using readily available hand tools



Joints between layers of CC were sealed with a VHB tape underneath



A UV-resistant, waterproof sealant was used to seal the joints on the concrete side