RETAINING SOIL WALL

Project Info

- 20 / 08 / 13
- CC8™ Bulk Rolls
- 278m²
- Vertical layers
- Barrio El Codito, Bogota D.C, Colombia
- M2M
- CC8™ used to stabilise and contain fines and debris during construction work at the foot of a slope.

Completed slope

In August 2013, Concrete Canvas® GCCM* was installed by M2M as a slope protection and stabilisation measure in Barrio El Codito, Colombia. The slope had previously suffered from surface erosion and slip caused by weathering and vibration from the adjacent road. A solution was needed that could be installed quickly, preventing delays to adjacent construction work. Shotcrete had been considered but the equipment would cause issues with road traffic delays as well as safety concerns due to the associated rebound.

Prior to installation, the site was cleared of any vegetation, loose soil, rocks and any other debris. Bulk rolls of CC8™ were then delivered to site and cut to length, eliminating material waste. The CC was fixed to the head of the slope using anchor bolts, before it was unrolled to the foot using a spreader beam and climbing equipment. Steel pegs were used to fix the material to the foot of the slope. Adjacent layers of CC were overlapped by 100mm and screwed in place at 200mm intervals. Soil nails with 200mm round-edge metal plates were then used to secure the CC to the slope and eliminate void spaces. The material was then hydrated using on-site equipment.

The installation was a success, ensuring the safety of the construction team whilst minimising project delays without the need for heavy plant. The client noted CC's speed of installation and consistency and that installation could continue despite the rain that the site experienced during installation, something that would not have been possible with shotcrete.

*Geosynthetic Cementitious Composite Mat

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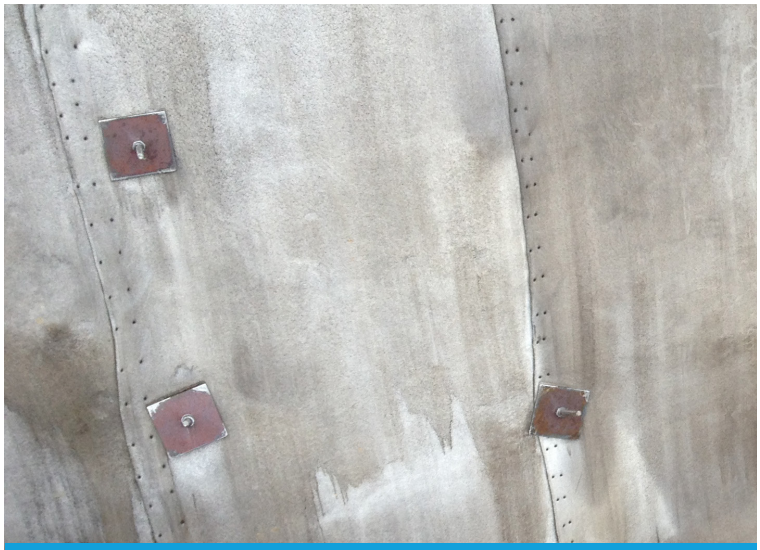
Slope instability and slip posed a risk to an adjacent construction project

CC8, unlike shotcrete, was able to be installed without heavy plant



Adjacent layers were overlapped by 100mm and screwed together

Soil nails with 200mm plates were used to secure CC to the slope

CC was hydrated using a hose and climbing equipment

CC lined slope section after hydration

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