## CONCRETE CANVAS

### SLOPE PROTECTION



In August 2015, Concrete Canvas<sup>®</sup> GCCM<sup>\*</sup> (CC) was used to protect a steep slope in the Piazza Armerina in the Enna Province, Sicily. The slope was 281 metres in length, and 14 metres high, and had been exposed after a historical wall (built in the 1900s) collapsed, and dragged the parking areas above down with it. The slope was in need of temporary protection to provent further collapse on the site.

A HDPE geomembrane had initially been considered, however, this area of Sicily is subject to very high Summer temperatures and strong winds in Winter, so this solution would not have lasted long enough to protect the slope in these conditions. Shotcrete was also considered, but the expense and difficulties involved in organising and carrying out the job with shortcrete would have been too great.

As a result, CC was found to be the only option which could quickly protect the slope face, be easily managable, and would not require an expensive professional installation.

The works were carried out by Geo Consulting Service from Caltagirone City, headed by Mr Gaetano Palazzo.

\*Geosynthetic Cementitious Composite Mat



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best of our knowledge accurate However since the circumstances and conditions in which such information and the products discussed therein can be used may vary and are beyond our control we make no warranty ever

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Completed installation

Work began with ground preparation, which consisted of the removal of any stones, rocks and moving soil parts which could disturb the CC or make its fixings less effective. The CC was then fixed with screws at intervals of 200mm, along with top anchor trenches and ground pegs every 1 metre along the top of the slope, before being hydrated with a hose.

400m<sup>2</sup> of CC5<sup>™</sup> were installed over a period of four days by a team of three people, including two rock climbers, in temperatures upwards of 35°C. The Client was very happy with the ease of installation of the CC and how well it met their needs.

"After 2 years the CC5<sup>™</sup> protection is still there, the original request was for a temporary protection, until the municipality could find the money to re build the collapsed wall, but until now the funds to rebuild have not materialised and the situation has not changed, and will in all likelihood not do so for another 2 years."

Gaetano Palazzo Geo Consultants LLC

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