

Project Info



01 / 04 / 16



CC5™ Batched Rolls



40m²



Vertical layers



Sasebo City, Nagasaki
Prefecture, Japan



Murakami Kaihatsu
Limited



CC5™ was used to
prevent shoreline
erosion and weed
suppression in Sasebo
City, Japan



The slope prior to installation

In April 2016, Concrete Canvas® GCCM* (CC) was used to protect a slope along the shoreline in Sasebo City in the Prefecture of Nagasaki, Japan. The area was beginning to become overgrown with weeds and was eroding in places.

The area was approximately 5.5 metres wide by 7.3 metres in length, incredibly steep, and right on the shoreline, which presented some issues for the installation. A poured concrete retaining wall was considered, but this would need to be constructed under dry conditions, which could be difficult as the site was so close to, and leading into the water. However, as CC can even set under water, this was the best option, and was therefore chosen for the job.

The works were carried out by Murakami Kaihatsu Limited on behalf of the Sasebo City Government.

Ground preparation for the installation consisted of the removal of all existing vegetation in the area, before the CC was laid and fixed using galvanised steel pegs, anchor bolts and sealant. The CC was then hydrated from the water below with the aid of a hose.

Approximately 40m² of CC5™ were installed in just one day by three people, who had to work on ladders in order to install the CC safely due to the steep nature of the slope.

*Geosynthetic Cementitious Composite Mat





The slope prior to ground preparation and installation



The site was initially overgrown with weeds



Vegetation was removed before installation



The CC was delivered to site in man portable batched rolls



Deployment of the CC



The CC was drilled, before being fixed with anchor bolts to the partial rock surface



The CC was fixed at the top with steel anchor pegs



Screws were inserted at 200mm centers



Water from the site was used for hydration



Completed installation



Completed installation