

Project Info

-  02 / 04 / 15
-  CC8™ Bulk Rolls
-  250m²
-  Longitudinal layers
-  64th Arrondissement, Buzy, France
-  B.T.P.S.
-  CC8™ used to line an earth channel on a slope adjacent to a railway line.






Right justified picture caption

In April 2015, Concrete Canvas® GCCM* (CC) was used to line a channel located next to a railway line in 64th Arrondissement in Buzy, France.

The channel, situated at the southern end of the Belair Tunnel, was lined with CC as a trial for SNCF, the French National Rail Authority, to see if it would be suitable as a standard product to use for channel lining and other erosion control applications within their network. The site had some major access issues and using conventional concreting methods would have required a 400m access road to be constructed (and deconstructed afterwards); a costly and time consuming exercise. Works were carried out by B.T.P.S and supervised by Concrete Canvas Ltd's French distributor, Point P Travaux Publics.

Prior to installation, the channel was graded to profile. Heavy rains had caused the soil to become saturated which would have prevented the use of conventional concrete without damming and the use of a blinding layer. The properties of CC allow for installation even in difficult and damp conditions such as these. The material was mounted onto a spreader beam and unrolled down the length of the channel in two layers, with an overlap of 100mm created between them. The material under the overlap was hydrated with a 1000L bowser before it was sealed with Everbuild Clearfix Adhesive sealant and jointed with screws every 200mm. The rest of the material was then hydrated, with hydration repeated an hour later due to the high temperatures.

In total, 250m² of CC8™ were installed in 3.5 hours by 5 people. SNCF were pleased with the speed and ease of installation and will continue to monitor the channel to assess its performance as a standard erosion control product across their extensive rail network.

*Geosynthetic Cementitious Composite Mat



Graded channel prior to installation



Unrolling first layer of CC



Edge of second layer overlapped the first by 100mm



Hydrating under overlaps



Sealing overlaps



Screwing overlaps