

03.02.10 Case Study : Church Village Bypass

In 2009, Costain were appointed as the main contractor for the £90M Church Village Bypass scheme in South Wales. This involved major ground works including the installation of holding ponds and an extensive surface drainage network.

The location and nature of the works required the sensitive use of appropriate construction materials to minimise the impact on the local environment.

Concrete Cloth provided a means of rapidly installing a concrete ditch whilst maintaining the natural aesthetic of the overall scheme.

Benefits include:

- Fast: 30 metre section laid in only 45 mins
- Cost Effective: Installed price of approximately £50/sqm
- Long lasting: Similar wear resistance to basalt
- Natural: The cloth follows the contours of the ground
- Aesthetic: The woven surface quickly attracts moss
- Versatile: Can be used in conjunction with natural materials

Other benefits include:

- Easily laid on steep slopes
- Can be laid in the rain
- Can be used where access by vehicles is limited
- Sets underwater so can be deployed in an emergency

Originally designed for the military, Concrete Cloth is supplied as a roll of material that when unrolled and sprayed with water, hardens overnight without the need for plant or mixing. Concrete Cloth is manufactured in South Wales.



Moss and algae growth on CC fibre surface



Artist's impression of green Concrete Cloth (available on request)

