grasscrete

CASE STUDY

PROJECT:	**River Embankments Adjacent to the A484 Gresford Nr Wrexham, Wales**
CLIENT:	**Wrexham Borough Council**
MAIN CONTRACTOR:	**Wrexham Borough Council, Construction Services Department**
SUB-CONTRACTOR:	**Chantry Contractors Limited**
SYSTEM:	**GRASSCRETE GC1 (100mm thick)**
QUANTITY:	**529 m²**
CONSTRUCTED:	**2002**

The A483 Gresford Bypass has been constructed alongside a fast flowing Tributary River, with a potential to swell, the river was particularly erosive at the bends along its route. At one such point; much of the road bund had been washed away during heavy flood to the extent that passing toe restraint was in danger of being lost.

To counteract that problem Grass Concrete was called in to assist with a suitable design for reinstatement works.

The lost earthwork was first replaced with local stone of a low fines content, formed to a gradient of 1 in 2.1/2. A toe beam was then constructed with a rip-rap, introduced at the low water mark to slow the rate of flow.

To the new formation, a geo-textile was introduced and the stone infill blinded with sand ready to receive cast insitu GRASSCRETE GC1, a 100mm thick system with a flow rating of 6 metres per second.

Upon grass establishment the GRASSCRETE has fully reinstated the natural environment, at the same time together with a structure that enables the release of hydro static pressure

Toe beam and sub-grade preparation