A244 WALTON BRIDGE for Costain

"Project innovation included the use of screw piles in the temporary support, and a new sustainable soil stabilisation to support heavy plant. It all meant that the £32 million budget was reduced by 20%"

Construction News

Project of the Year (between £10m-£50m):

"Innovations included a unique cement stabilising solution from PowerCem that allowed the alluvial ground on the eastern side of the river to be made hard enough to support scaffolding and crane platforms and then returned to its original state at the end of the project.

This eliminated the expensive need to excavate, remove material, import stone and then remove the stone.

The system has since been adopted as Environment Agency best practice".

Full testing of the RoadCem soil concrete platform was carried out, including the compressive strength of cores, cubes and beams from: 2.5N/mm2 up to 10N/mm2

- 10,000m2 of platform built for piling, craneage, falsework and general access roads
- Up to 3.0m of very weak alluvium overlaying river gravels and London clays High water table - 0.8m below existing ground
- High crane loads up to 80 tonnes/m2
- Traditional design 1400mm of stone thick
- Using "RoadCem" additive to provide tensile as well as compressive strength – platforms reduced to 300 to 600mm thick using existing as found soils
- Compared to standard stabilising techniques Saving up to 14,000m3 of dig, dispose and import
- Savings over 4,000 truck movements to site

PowerCem Technologies (UK) Ltd - St James House - Mansfield Road - Derby DE1 3TQ - Tel: 01332 969696 - Email: info@powercem.co.uk