

## Project Profile - Civil Engineering & Infrastructure



### PROJECT

**Belton Bridge, Leigh on Sea**

### SUMMARY

Repair of concrete bridge columns suffering from chloride ion corrosion

### PRODUCTS

**Steel Reinforcement Protector 841**  
**Monomix**  
**Curing Membrane WB**

### CLIENT

Southend Borough Council

### CONTRACTOR

Fitzpatrick

### BACKGROUND ▶

**The picturesque old fishing village of Leigh on Sea is situated 30 miles east of London on the north bank of the Thames Estuary.**

With history back to the Domesday Book, its development was accelerated by the arrival of the London-Tilbury-Southend railway line in 1854. Belton Bridge was built in 1955/6 to carry the road over the railway line and a car park as part of the Town's Development Plan and the electrification of the rail line. Failed joints had allowed de-icing salts to penetrate into the concrete columns causing extensive corrosion of the reinforcement and spalling of the concrete.

### THE SOLUTION ▶

Main contractor Fitzpatrick, who were repairing the corroded bearings, selected Monomix because of its high strength and ability to be applied in single layers up to 80mm thick without slumping. Simple in application and use, the work was done by their own team. It cures rapidly to form a durable finish with excellent resistance to water and chloride ions to give long-term protection. It is BBA Certified and complies with Highways Agency Specification BD 27/86 as well as being CE Marked in accordance with EN 1504 Part 3.



FM 41091  
EMS 597350  
OHS 597351

Quality  
Environmental  
Health & Safety

**Flexcrete Technologies Limited**  
Tomlinson Road • Leyland  
Lancashire • United Kingdom  
PR25 2DY

**Tel:** +44 (0) 845 260 7005 • **Fax:** +44 (0) 845 260 7006  
**Email:** [web@flexcrete.com](mailto:web@flexcrete.com) • **Web:** [www.flexcrete.com](http://www.flexcrete.com)

