

## Project Profile - Coastal Structures



### PROJECT

Canal Bridges, Northwich & Chester (Snapes, Pickerings, Wardle, Henhull & Cheney road bridges)

### SUMMARY

Repair and protection of reinforced concrete canal bridges

### PRODUCTS

**Monomix**  
**Fastfill**  
**Monolevel 844SP**  
**Cemprotec E942**

### CLIENT

Cheshire County Council

### CONTRACTOR

Gables UK Limited

### BACKGROUND ►

On five of the road bridges above the Shropshire Union Canal, inadequate concrete cover to the steel reinforcement had given rise to premature failure from the effects of carbonation.

### THE SOLUTION ►

Following consultation with specialist contractor Gables UK Limited, a complete Flexcrete system comprising repair mortars, a fairing coat and a cementitious coating were specified in order to repair the existing damage and protect the concrete from future degradation. Initial cleaning was carried out using a high pressure water lance before localised repairs either with **Monomix** – a high strength shrinkage compensated mortar – or with **Fastfill** – a rapid curing mortar which sets in as little as 10 minutes. General concrete surfaces were bag rubbed with **Monolevel 844SP** in order to provide a fair-faced waterproof finish. **Cemprotec E942** was selected as the final protective coating, a 2mm thick epoxy and polymer modified formulation, which provides equivalent effective cover to approximately 80cm of typical concrete.



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 • **Web:** www.flexcrete.com

