

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

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