

## Project Profile - Utilities

### PROJECT

Whiteadder Reservoir, Scotland

### SUMMARY

Repair and freeze thaw protection to circular concrete spillway

### PRODUCTS

**Monomix**  
**Monolevel 844SP**  
**Cementitious Coating 851**

### CLIENT

East of Scotland Water

### BACKGROUND ►

**The circular spillway of the Whiteadder Reservoir is bordered by an elevated walkway supported by concrete beams.**

As a consequence of the exposed location, extensive freeze thaw attack of the concrete cover had occurred to cause spalling which required rectification to ensure continued integrity of the structure. In line with current legislation, a fully DWI certified system was needed to reinstate the integrity of the structure and provide an extended life.

### THE SOLUTION ►

In order to effectively repair the structure, it was important to thoroughly prepare by removing all damaged concrete back to a sound core to allow for cleaning of the steel to bright metal. General repairs were carried out with **Monomix**, and areas needing a surface levelling treatment were filled with **Monolevel 844SP** to a fair face finish. After re-profiling of the beams, all surfaces were sealed with **Cementitious Coating 851** to both waterproof and provide an effective barrier to carbon dioxide gas, thus preventing deterioration arising from either freeze thaw cycling or carbonation.



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)

