

Project Profile - Utilities

PROJECT

Gowanbank Service Reservoir,
Scotland

SUMMARY

Protection of concrete columns
suffering from soft water attack

PRODUCTS

Monolevel 844SP

CLIENT

East of Scotland Water

BACKGROUND ►

The structure of the Gowanbank Service Reservoir is supported by a total of 170 circular concrete columns, each close to 5 metres in height.

Soft water chemical attack had caused erosion of the cement binder, leaving exposed aggregates on the surface with potential for further degradation. The client invested in a major study of different generic coating systems before deciding on the best solution to repair the damage.

THE SOLUTION ►

Once the surfaces had been prepared by high pressure water blasting back to a sound substrate, surface re-profiling was undertaken with **Monolevel 844SP** applied directly to the pre-dampened concrete in an average thickness of just 3mm. Approved by the Drinking Water Inspectorate, **Monolevel 844SP** cures to form a dense impermeable finish with excellent resistance to soft water attack. Being cement-based, a homogeneous bond is achieved with the host concrete, and high humidity does not interfere with the curing mechanism. Speed of installation is another advantage which adds to the attraction of **Monolevel 844SP**.



FM 41091
EMS 597350
OHS 597351

Quality
Environmental
Health & Safety

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