

Project Profile - Utilities

PROJECT

Harefield Service Reservoir No 3

SUMMARY

Protection of concrete columns and bases suffering from soft water attack

PRODUCTS

Monolevel 844SP

CLIENT

Three Valleys Water plc

CONTRACTOR

Makers UK Limited

BACKGROUND ▶

Three Valleys Water is one of the UK's leading water and sewerage companies serving more than 8 million people in the heart of Britain.

Harefield Service Reservoir No 3 forms part of its network responsible for supplying 2 billion litres of water per day. Circular concrete support columns and bases were suffering from chemical attack and erosion requiring reinstatement and protection from further degradation.

THE SOLUTION ▶

Monolevel 844SP, an engineering quality render approved by the Secretary of State for use in contact with potable water, was chosen because of its excellent chemical resistance and impermeability to water even under 10 bar hydrostatic pressure. Specialist contractor, Makers UK Ltd, prepared the concrete back to a sound substrate using high pressure water blasting. The surface was then reprofiled using **Monolevel 844SP** applied directly to the pre-dampened concrete substrate by steel float at an average thickness of just 3mm. It cures to form a dense impermeable finish, which does not affect the quality of the drinking water.



FM 41091
EMS 597350
OHS 597351

Quality
Environmental
Health & Safety

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