

Project Profile - Utilities

PROJECT

**Radbourne Lane Water Tower,
Derbyshire**

SUMMARY

Repair to internal concrete staircases
and landings suffering from
carbonation

PRODUCTS

Monomix

CLIENT

Severn Trent Water

BACKGROUND ►

Dominating the landscape locally, the Radbourne Lane Water Tower was exposed to weathering which had caused damage to the internal stairwell.

As the concrete had inadequate protection, carbonation had given rise to spalling of the concrete, necessitating a remedial solution.

THE SOLUTION ►

Once the defective concrete was cut out and the exposed steel which was prepared to Sa 2½, **Steel Reinforcement Protector 841** was applied in two coats to form a protective sheath with good flexibility and excellent barrier properties. When this had become stable, it was possible to immediately proceed to build up the repair with **Monomix**, a medium density, single component, high build cementitious mortar which is suited for hand application in both vertical and overhead situations. **Monomix** is a high strength shrinkage compensated formulation which cures rapidly to form a durable repair with a high quality polymer rich finish simply achieved with a steel float.



FM 41091
EMS 597350
OHS 597351

Quality
Environmental
Health & Safety

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