



***HELPING TO PRESERVE  
NATIONAL HERITAGE BUILDINGS***

***We raise, re-level and  
re-support buildings...  
fast and economically...  
with minimal disruption!***



**Uretek Ground Engineering**

# URETEK HELPING TO PRESERVE THE NATION'S HERITAGE BUILDINGS



Uretek offers an economical and permanent building and construction remediation service based on its unique and internationally patented technology. This allows fast and economical re-support and re-alignment of buildings with minimal intrusion.

Experienced technicians inject the appropriate Uretek resins through tiny pattern drilled holes, immediately below the slab or footing. The components are precisely machine mixed and chemically expand almost immediately, exerting a mould pressure that fills voids encountered, re-establishing or confirming structural support. They cure, almost immediately, to a strong stable and longlasting material that is immediately trafficable and environmentally neutral.

*This fine old heritage church had footings of bricks, so Deep-Injection was applied to densify the foundation ground; then Deep-Lifting relevelled the building.*

## Uretek Slab-Lifting and Deep-Injection

Raising and re-leveling, carried out by injecting expanding geo-polymeric structural resins under the element to be raised, through tiny 6 or 16mm holes.

Improving ground bearing capacity is achieved by this patented technology that compacts foundation soils, again by similar injection through tiny holes but down to multiple depths in weak strata.



## Uretek PowerPiles

Patented and initially being offered as UPP Compaction, prefabricated elements are inserted through 34 or 38 mm Ø holes and expand up to 340 mm, allowing a concentration of soil densification in a very defined volume. Structural versions of UPP's are to provide pile-type support with skin friction and end bearing characteristics.

*A Uretek rig was brought by barge to re-support the old Powder Works on Sydney's Middle Harbour. The brick footings again required Deep-Injection & Deep-Lifting.*



## BUILDINGS - CHURCHES, SCHOOLS, HOTELS, CIVIC BUILDINGS ETC.



*A major section of this heritage-listed school at Darlinghurst, Sydney was re-supported and raised by Uretek prior to effecting masonry repair and replacement.*

The URETEK Method is not confined to correcting concrete footings, although they are often the easiest to deal with. Numerous Australian and New Zealand jobs have been successfully completed, involving a wide range of other types of footings: bluestone, sandstone and brick being the most common.

Historic buildings feature heavily in the list: churches, (such as the one below with brick footings), schools, town halls and cottages. Uretek's unique and patented process of Deep-Injection very frequently

plays a major role in such heritage restoration by renewing and increasing ground support for the old structures.

The Glenelg Town Hall building (lower right) was corrected by Deep-Injecting to strengthen various weak underground strata, then Slab-Lifting along one whole side, to restore support and re-level the building.

The process also closed up the huge wall cracks that had developed over time.

*This fine old heritage homestead re-supported by Uretek Deep-Injection now serves as Goulburn's museum.*



*Heritage Town Hall building Glenelg, Adelaide, S.A.*





*The Post Office at Kempsey, NSW, had been founded on poor fill and subjected to protracted drainage issues, causing long term subsidence with major cracking and distortion of the brickwork across the entire rear section.*



*These sets of 'Before' and 'After' photos show how cracks in walls and gaps below skirting boards will usually close up as building footings are lifted. In that case it only remains then for brickwork to be re-pointed and interior wall cracks to be re-plastered.*



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