

## URETEK SOLUTIONS FOR GEOTECHNICAL ENGINEERING PROBLEMS ????

### Abstract of the Talk

Uretek uses a technique of injecting a resin into the ground which expands immediately. This product can be used to correct the differential settlements in buildings, lift up the sagging floors or rigid pavements, airport concrete pavements, fill large voids in ground, etc. These resins have a lifting capacity of up to 7 MPa (1000 psi). This technology was invented in Finland in the year 1975 and is used in many countries for different applications. Using a new process called "Powerpiles" Uretek can pre-compact soil in a matter of a week on jobs that previously took up to two years. Often jobs which take 2 or 3 months using conventional underpinning, can be done with Uretek in just one day.

This talk will describe the technique and how it can be applied in different geotechnical conditions.

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**GRAHAM MORPHETT**  
**Managing Director, Uretek India Private Limited**  
**Biography**



Graham Morphett was born, raised and received his early education in Sydney, Australia. University education followed at the University of New England, Armidale, NSW where he gained his Bachelor of Arts. Following a period working for the Prime Minister's Department (Australia), he joined the Construction Industry, first in NSW and then in Queensland.

His early work in the construction industry involved many projects in Guam, Indonesia and across Australia. The 1989 earthquake in Newcastle, NSW brought him his first contact with Uretek, where the product was used to relieve stress on cracked buildings.

By 1995 Graham had begun work in Import/Export from China and from 1997 to 2003, he served on the Board of the Environmental Engineering Society in Australia.

Deepening his work in Uretek Australia, his role became one of business development, first by expanding the Australian business, then by assisting the growth of the Japanese and New Zealand Uretek businesses and then in 2004 by establishing the Uretek product in Thailand.

In March 2007, with Mr Peter Dance, a long term business partner, he became the Licensee for Uretek in the Indian Sub-continent, embracing India, Sri Lanka, Pakistan, Myanmar and Bangladesh.