

Technical specification of the URETEK method and URETEK GeoPlus®.

Much testing and research has proved the efficiency of the URETEK Method. Graphs show various data collected during the research on URETEK GeoPlus® material and the process. The results of penetration tests show that the compressive strength of the ground increases dramatically following the injection of URETEK GeoPlus®.

Volume weight of material injected depends on the surrounding conditions, the more lifting force required the denser and stronger the filling material becomes hence the compressive strength increases. Moisture within the ground does not affect the injection of material into the ground due to the impact of water during the injection is insignificant due to the characteristics of the hardened material.

The hardened material consists of closed cells and is hydrophobic, impermeable and has excellent heat insulation. After hardening the URETEK GeoPlus® is insoluble and cannot melt.

Scientific research has proved that injectable URETEK GeoPlus® is environmentally friendly and it does not emit any harmful fumes this means URETEK GeoPlus® is not dangerous to sub-soil water or to the surrounding environment.

Scientific research has proved that URETEK GeoPlus® is very stable and the characteristics of the material remain almost unchanged over time. Under most physical and chemical conditions URETEK GeoPlus® remains stable and micro organisms in the soil do not damage URETEK GeoPlus®.



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Floorlifting & Deep Injection Technology





We at URETEK are pleased to introduce to you a unique patented lifting and levelling method designed in Finland.

Since 1977 we have successfully helped innumerable clients to solve problems associated with sinking constructions.

The consequences of such problems as sunken flooring and foundations in both companies and private dwellings can incur very high costs due to factors such as re-location or halt in production etc.

The URETEK Method has been used in the levelling and lifting of floors, foundations, and concrete /stone floors in production buildings, supermarkets, warehouse, school, churches, private homes and on a larger scale ship docks, airport runways, concrete platforms but to name a few.

The URETEK Method of levelling and lifting is based on the expansive action of a specially developed material called URETEK GeoPlus® this material has a lifting force of up to 10.000 kPa a tolerance level of 5mm and a net weight of approx 70-130 kg/m³. Geoplus is environment friendly, hydrophobic and impermeable.

URETEK Geoplus® is injected into the ground through 16mm holes, supervised by our specialised technicians who with laser guided equipment monitor the process carefully.

The URETEK Method has been approved and recognised by engineers, architects, insurance companies, construction companies, construction approval authorities, home owners and many other institutes.

If you have need for any further information or questions please do not hesitate to contact and find out more about the URETEK Method.

URETEK®

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Domestic



Levelling of foundations.

With its high expansive capacity and compression strength of 10.000 kPa URETEK GeoPlus® has the capability of levelling constructions of up to 10 stories high causing no damage where as other potentially harmful methods can, this is due to the highly precisioned process we use with URETEK GeoPlus®.

The first phase of the process starts with the injection of URETEK GeoPlus® at the lower level of the foundation where there is a solid layer of earth. The layers of earth are compressed therefore increasing the compressive strength of the surrounding area. The second phase is a precisely measured amount of the material injected, this will give an upward lifting force and will ensure the earth beneath the foundation has reached its full compressive strength enabling it to overcome the dynamic force of the lifting process. This procedure is repeated until solid earth is reached.

The maximum possible depth for this process is approximately 5m.

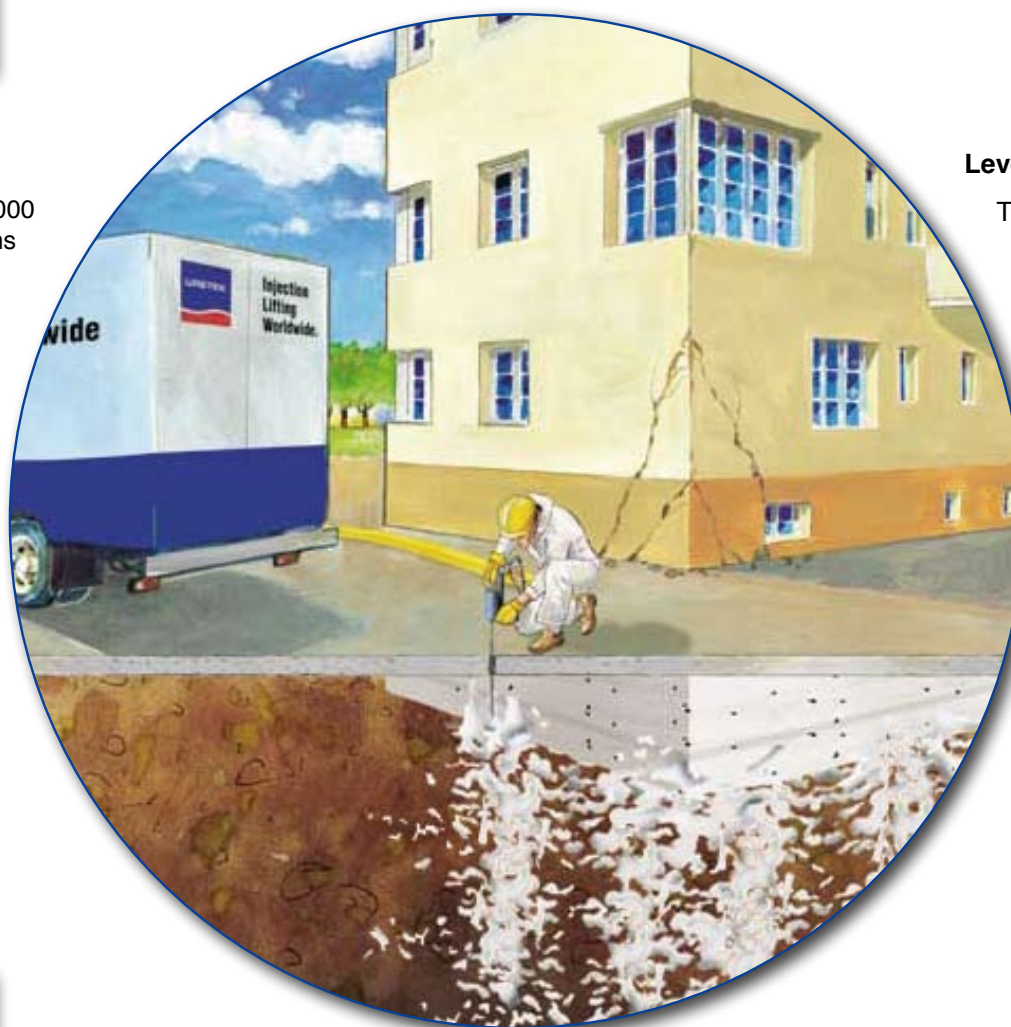
We offer a 5 year guarantee.



Indoor & outdoor

Advantages:

- The URETEK Method solves the problem quickly, neatly and silently without disturbing the inhabitants or the working environment of the work place.
- The URETEK Method is clean, quick and economical.
- The URETEK Method has a lasting impact and is environment friendly.
- URETEK lifts constructions located on the floor such as dividing walls, shelves, machinery etc.
- URETEK avoids the interruption of the every day commercial and industrial activity.
- THE levelling of floors in private homes by URETEK can be done without re-location of people.
- URETEK gives a 5 year guarantee.



Commercial sector



Levelling of flooring

The URETEK Method works by the filling of all airgaps, compacts the filler thus lifting the floor / concrete sub- floor to its original or desired level.

The process of levelling the floor by the URETEK Method is achieved by a controlled injection of URETEK GeoPlus® into the ground by way of 16mm holes drilled into the floor/sub concrete floor thus lifting the area required. This process is closely monitored by our specialists using laser levelling control system.

The URETEK Method allows for the preservation of the concrete flooring and the process causes no disturbance to the every day activity of both work place and private dwelling allowing in nearly all cases the inhabitants to remain at home or the work place.

The process can be done without the movement of machinery, warehouse shelving etc all can remain stationary and no inconvenience is caused.

The URETEK method:

The URETEK Method is fast, economical and competitive causing no disturbance and no damage to both home owner and business alike.

The Uretek Method is based on the expansive action of the patented URETEK GeoPlus® material. Uretek GeoPlus® is environment-friendly, hydrophobic (water-resistant), impermeable, strong and stable material, its expansive/load bearing force is up to 10.000 kPa and net weight approximately 70-130 kg/m³.

URETEK GeoPlus® consolidates the ground and prevents further deformation and sinking of constructions.

URETEK gives a 5-year guarantee to the durability/pressure resistance of the GeoPlus® material.

Public sector

