



URETEK GROUND ENGINEERING

MICROPILES

Fast Re-support For Sinking Foundations

MICROPILES

- MicroPiles are installed using hydraulic pressing system, which helps to strengthen soil by pressing the pile under the ground, under a structure, building or house. The pile is installed assist the ground to carry the weight of the structure and can be designed to connect into the building structure.



Benefits of using MicroPiles

1. Can be installed in a limited area.
2. No noise or vibration.
3. Can installed close to the wall.
4. Can installed very fast.
5. Can carry a weight of 10-15 metric tons per pile.
6. Can up to 25 metre deep.



Work Method

1. Design and calculate structure weight to calculate number of piles required.
2. Identify the position to do piling. the position will be
 - Position that can carry the weight
 - Position that has strong concrete, that can carry the compressive strength and shear from structure weight.
3. Overburden the soil 0.5-0.5 m. deep on that position to install piling sleeve.
4. Install piling sleeve made from 10 mm. thick steel. When installed, the sleeve will ensure that piling sleeve and concrete is smooth and strong.
5. Install the hydraulic system which can apply a pressure more of than 10,000 PSI into the piling.
6. Install piling that has hole 90 mm-wide, made from 5 mm-thick steel, 1 m. long. Piles will press underground one by one continuously until getting the designed depth or designed hydraulic pressure requirement.
7. Having achieved the designed depth or correct hydraulic pressure requirement, our staff will hold hydraulic pressure at least 20 minutes, to make sure that the pressure will be continue to carry the designed weight.
8. Size the piling sleeve with piling by steel sheet and steel spiral.
9. Once all MicroPile system installed, seal with concrete and finish.

Work Method



The Trust Ville Kanchanaphisek - Hathairat Pathumthani



Bangkok Boulevard Srinakarin-Bangna Bangkok



Kanasiri Salaya-Pinklao Nonthaburi



Perfect Place Phase 1 Lat Krabang Bangkok



Parkway Home ramkhamhaeng Bangkok



Perfect Park Rangsit Pathumthani



MICROPILES TECHNOLOGY
FAST
COST EFFECTIVE
PROVEN



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