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OJAČANJE TEMELJNOG TLA UPOTREBOM EKSPANDIRAJUĆIH SMOLA

Sažetak:

Temeljno tlo je nezaobilazan faktor stabilnosti neke građevine i treba ga promatrati kao posebnu cjelinu koja zahtjeva detaljnu karakterizaciju i ocjenu geotehničkih okolnosti na pojedinim lokacijama. Kroz eksploataciju objekata svjedoci smo promjena stanja geomehaničkih karakteristika tla kao posljedicu sekundarnih utjecaja koje karakteriziraju klimatske promjene, prisutnost sanitarnih i oborinskih voda, vibracije u urbanim sredinama te potresi. Sve spomenute pojavnosti za posljedicu imaju slijeganje nosivih dijelova, a time i ugrozu konstruktivnih dijelova građevina. U svijetu geotehnike unazad nekoliko godina svjedoci smo afirmacije metode Deep Injections koja se koristi za sanaciju, ali i ojačanje temeljnog tla postojećih objekata koristeći ekspandirajuće smole.

Ključne riječi:

Geotehnika, temeljno tlo, slijeganje, ojačanje, ekspandirajuća smola, duboko injektiranje.

THE FOUNDATION SOIL IMPROVEMENT USING EXPANDABLE RESIN

Summary:

The foundation soil is an inevitable factor in the stability of a building and should be viewed as a separate entity that requires a detailed characterization and assessment of the geotechnical circumstances at individual locations. Through the exploitation of buildings, we witness changes in the geomechanical characteristics of the soil as a result of secondary influences characterized by climate change, the presence of sanitary and storm water, vibrations in urban areas and earthquakes. All the mentioned occurrences result in the settlement of bearing parts, and thus endanger the structural parts of buildings. In the world of geotechnics, for the past few years we have witnessed the affirmation of the Deep Injections method, which is used for rehabilitation, but also for improving the foundation soil of existing buildings using expandable resins.

Key words:

Geotechnics, foundation soil, settlement, improvement, expandable resin, deep injections.

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