Review of: "Enhancing Soil Stabilization in Soft Soils Through The Addition of Sand to Soil-Cement Piles: a Comprehensive Study"

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Potential competing interests: No potential competing interests to declare.

1. How does the choice of construction equipment and components strongly influence the effectiveness of soil stabilization, and what are the key considerations in their selection?

2. In what ways do inorganic stabilizing agents play a strong role in altering permeability, enhancing strength, and minimizing harmful salt content during the soil stabilization process?

3. How does the accurate description and classification of soil strongly impact the selection of suitable stabilizing materials and equipment, ensuring optimal performance in construction projects?

4. Elaborate on the strong connection between achieving homogeneity in the mixed phase and ensuring the consistent and reliable performance of stabilized soil?

5. How does the systematic approach outlined in Table 1 provide a strong guideline for selecting the most appropriate treatment method for each type of soil, emphasizing its role in achieving strong and tailored soil stabilization?

6. How does the addition of sand and ECO-CSB additives impact the hardness and load-bearing capacity of soft ground in the context of soil-cement mixtures for soil stabilization?

7. What are the specific benefits of incorporating ECO-CSB additives for non-saline soils and ECO-CSSB for saline soils, and how do these additives contribute to reducing the amount of required cement while maintaining uniaxial compressive strength?

8. In the challenges and future directions section, what factors are identified as crucial for the effectiveness of cement piles in enhancing soil strength, and how do material homogeneity, environmental conditions, and construction practices influence their on-site performance?

9. How does the research focus on ECO CSSB contribute to the mitigation of adverse effects of saline water on the cement hydration process during soil stabilization, and what role does ECO CSSB play in achieving desirable structural characteristics in stabilized soil?

10. In the section discussing weak soil improvement, what parameters were investigated to comprehensively understand the effects and characteristics of cement-soil-cat mixes, and how were these parameters evaluated in soil samples

collected from non-saline and saline areas in Ben Tre city and Binh Dai district?