

# Review of: "A Study on Alternative Low-Emission Sustainable Soil Stabilization Techniques in General and Combat Military Operations"

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Potential competing interests: No potential competing interests to declare.

The research effectively establishes a connection between the discussed soil stabilizing methods and precise military applications. The paper's greatest strength lies in its focus on sustainability and its potential to decrease the military's carbon footprint. This research effectively tackles the environmental consequences associated with conventional cement usage and suggests more environmentally friendly alternatives. In summary, this study outlines a perspective on sustainable soil stabilization technology for military purposes that integrates scientific advancements with practical implementation. Implementing the following advice will increase its contribution and influence in the field.

1. The authors should enhance the argument for using sustainable technologies by providing a comprehensive economic analysis that compares the long-term costs and advantages of employing these methods with traditional cement. Integrating a life cycle cost assessment would enhance comprehension of the financial ramifications.

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This paper discusses various applications and benefits of MICP, including potential cost savings and durability enhancements.

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This study highlights the cost-effectiveness and environmental benefits of using biopolymers in soil stabilization.

2. The authors should provide more information about the long-term effectiveness and maintenance requirements of alternative stabilizing technologies compared to conventional cement. This would help alleviate apprehensions regarding the durability and dependability of these technologies in demanding military settings.