

# **Soil Stabilization Market Size, Share & Trends Analysis Report By Method (Mechanical, Chemical), By Additive, By Application (Industrial, Agricultural), By Region, And Segment Forecasts, 2024 - 2030**

<https://marketpublishers.com/r/S541EC9261FEEN.html>

Date: May 2024

Pages: 127

Price: US\$ 5,950.00 (Single User License)

ID: S541EC9261FEEN

## **Abstracts**

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### **Soil Stabilization Market Growth & Trends**

The global soil stabilization market size is anticipated to reach USD 43.31 billion by 2030, growing at a CAGR of 5.0% from 2024 to 2030, according to a new report by Grand View Research, Inc. The growth is majorly attributed to the increasing focus on infrastructure development and construction activities globally. As countries continue to invest in expanding their infrastructure, such as roads, highways, railways, airports, and residential/commercial buildings, there is a growing need to ensure the stability and durability of the underlying soil.

The product techniques and products are essential in improving the engineering properties of soil, making it suitable for construction purposes. This includes enhancing the load-bearing capacity, reducing soil erosion, controlling soil settlement, and mitigating the effects of environmental factors such as moisture and temperature variations.

Moreover, environmental regulations and sustainability concerns are driving the adoption of product solutions. By stabilizing soil rather than resorting to traditional methods like excavation and replacement, construction projects can minimize their environmental impact, reduce waste generation, and lower overall costs.

There's a growing emphasis on environmentally friendly stabilization techniques that minimize the use of chemicals and promote sustainability. This includes the development of biodegradable stabilizers, such as bio-based polymers and enzymes, which offer effective stabilization while reducing environmental impact.

The use of geosynthetics and geotextiles in product applications has gained popularity. These materials, such as geogrids, geotubes, and geocells, provide reinforcement and confinement to soils, improving stability and load-bearing capacity. Advances in manufacturing techniques have led to the development of high-performance geosynthetics tailored for specific soil stabilization requirements.

### Soil Stabilization Market Report Highlights

Based on method, the mechanical processes segment dominated the market with a revenue share of 68.9% in 2023, owing to their simplicity, cost-effectiveness, and environmental friendliness compared to chemical stabilization methods

Chemical methods involve the use of chemical additives to alter the properties of soil, enhancing its strength, durability, and load-bearing capacity for construction purposes

The industrial application segment dominated the market with a revenue share of 47.1% in 2023, owing to extensive applications across various sectors due to their ability to enhance soil properties, increase stability, and improve load-bearing capacity

Based on additive, the mineral and stabilizing agent segment dominated the market with a revenue share of 57.9% in 2023, owing to heightened utilization of lime as a soil stabilizer, driven largely by the growing construction sector

Asia Pacific dominated the market with a revenue share of 37.0% in 2023, attributed to the rising construction activities and growing demand from the industrial sector in emerging countries, such as India, Japan, and South Korea, are expected to drive the market over the forecast period

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