



GRAVELOCK
Soil Consolidation Aid

Product Overview

Exclusively manufactured in South Africa, this **anionic synthetic thio** compound improves the workability, density, and strength of natural soils. It's distributed globally in serialized drums for reliable tracking and reference.

With surface-active properties, the formula replaces water-attracting ions with water-repelling ones, transforming hydrophilic clay into hydrophobic material. The result is a stable, compactable surface that resists moisture and performs consistently in varying conditions.

Key Properties

- Water-soluble; leaves no residue
- Non-flammable and non-corrosive
- Non-toxic, non-hazardous, and safe
- Environmentally friendly and user-safe
- Unlimited shelf life
- Safe to ship by air, land, or sea
- 100L treats 10,000–20,000 m² at 15 cm depth
- Concentrated formula keeps transport costs low

Permanent Moisture Resistance

This cation-reactive compound forms a protective layer on clay and soil particles, making them permanently hydrophobic. It reduces ion exchange and mobility by eliminating adsorbed water—ionically bound to clay particles—resulting in lower moisture sensitivity and improved compaction.

Treated soils gain density, particle interlock, and bearing strength. Effective on cohesive materials like clays, silty sands, and gravel, it transforms soft, muddy roads into stable, trafficable surfaces—even in wet conditions.

Tested & Safe

GRAVELOCK was tested to Canadian standards and proven non-toxic, non-flammable, non-corrosive, and environmentally safe—even near streams, plants, and wildlife. It resists leaching and is safe for use on farm, forest, and public roads.

Smarter Roadbuilding

GRAVELOCK enables the use of in-situ materials for single or multi-layer road construction, reducing reliance on imported aggregate and minimizing environmental damage from borrow pits. It's a soil treatment—not just a stabilizer—designed to improve the performance of marginal materials.

Key Benefits:

- Enhances soil workability and shear strength
- Increases density and bearing capacity
- Reduces dust and gravel road maintenance
- Cuts the need for gravel replacement
- Lowers construction and haulage costs

Used globally, this solution delivers long-term savings, allowing more road to be built within the same budget.



780-720-8479



www.gravelock.com