

CASE STUDY HEAVILY TRAFFICKED PORT ROAD GUINEA, AFRICA

FLEXI-C-MENT CO POLYMER SOIL STABILIZER



PRODUCT FLEXI-C-MENT CO POLYMER SOIL STABILIZER

ENGINEER GOVERNMENT

CLIENT PORT AUTHORITY

CONTRACTOR LOCAL CONTRATORS

LOCATION GUINEA, AFRICA

WHERE SCIENCE



MEETS THE EARTH

PROJECT - REMEDIATION OF A FAILING PAVEMENT

The client needed to stabilize a very difficult access road to the main port through the town. A high organic black cotton soil was causing issues such as potholes, corrugations, heaving etc. The black soil was removed from the site and backfill was imported so construction of the site could begin.

DESIGN

3.5ltrs Flexi-C-Ment & 13.5kgs of Cement per sqm treated at 200mm deep

Once constructed a 300mm overlay of concrete was applied and finished by hand.

Equipment - Mill, Grader, Roller, Watercart, Powder Spreader

Project completed in 12 hours over 2 days

INSTALATION

Before construction started, the contractor dug out and removed 1.5mtrs deep of black cotton soil and overlaid this with backfill.

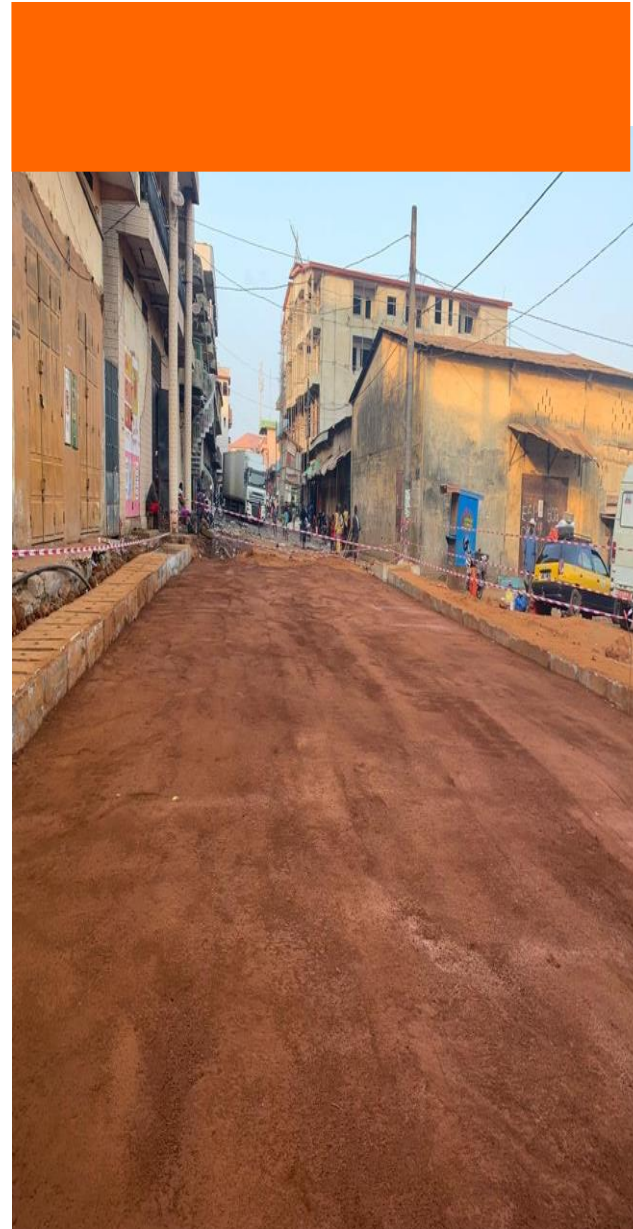
Once this process had been completed, cement was hand spread in a grid pattern and then the grader methodology was applied at 200mm deep. Once the initial curing had taken place, over a 72 hour period, concrete was trucked onto site and labourers hand finished the application process.

Equipment - Grader, Roller, Watercart, Trucks, Labourers

Project completed over 5 days

BENEFITS PROVIDED TO THE PROJECT BY USING FLEXI-C-MENT

- Enabled rapid construction
- Used basic construction equipment
- Local people used to spread cement in lieu of a cement spreader (grid pattern)
- Low cost solution to a global problem



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