

GRAVEL LOCK LTD JALUIT AIRSTRIP MARSHALL ISLANDS

**FLEXI-C-MENT RUNWAY STABILIZATION OF
CORONOUS MATERIALS IN THE MARSHALL ISLANDS**



PRODUCT FLEXI-C-MENT CO POLYMER SOIL STABILIZER

ENGINEER BOBBY MULLER, PII MUJARO

CLIENT TROPEX EXPORTERS LTD, NZ

CONTRACTOR PII, MUJARO, MARSHALL ISLANDS

LOCATION JALUIT AIRPORT, MARSHALL ISLANDS

WHERE SCIENCE



MEETS THE EARTH

PROJECT - December 2018

This public use runway is on Jaluit Atoll, a coral formation in the Ralik (western) chain of the Republic of the Marshall Islands, situated in the west-central Pacific Ocean. The Runway consists of crushed coral which had deteriorated over time resulting in loss of fines which in turn caused the pavement to deform and create potholes from poor drainage.

DESIGN – 2ltrs Flexi-C-Ment and 8kgs of Cement per sqm

Treatment of Coronus material (crushed coral)

20000sqm (1000 X 20mtrs) 100mm deep

Equipment – Rock Crusher, Grader, Roller, Watercart, Cement spread by hand

Project completed in 21 days including establishment of equipment

INSTALATION - PII DESIGN AND BUILD

This recondition was a challenging project due to the location of the site and the scarcity of aggregate. The speed of construction was a crucial factor and presented savings to the contractor in terms of downtime and related costs. During the entire construction phase, the PII team had access to Gravel Lock technical staff to support when challenges and changes in design presented themselves.

THE PRODUCT PROVIDED THE BENEFITS TO THE PROJECT

- Cost effective solution
- Speed and ease of installation
- Stabilize the insitu coral material giving the client a solid runway
- Safer and more efficient taxi, take off, approach, and landing operations.
- Created an all-weather runway



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