

# CASE STUDY DUBAI UNITED ARAB EMIRATES

FLEXI-C-MENT – POLYMER STABILIZING  
IN FINE GRANULAR SAND



PRODUCT FLEXI-C-MENT CO POLYMER SOIL STABILIZER

ENGINEER WACKER CHEMICALS

CLIENT H2BQ DUBAI

CONTRACTOR RAD CONTRACTING

LOCATION DUBAI, UAE

WHERE SCIENCE



MEETS THE EARTH

## PROJECT – November 2018

The GCC countries (Bahrain, Kuwait, Oman, Qatar, Saudi Arabia and the United Arab Emirates) depend heavily on the outside world for the supply of most of their aggregates due to lack of resources. Being able to stabilize insitu granular sand is a major breakthrough for these countries. Flexi-C-Ment was used in Dubai to stabilize a pull off lane (shoulder) in an industrial roadway and also a loading construction bay used for the sale of aggregate. Both of these projects were highly successful resulting in the Company gaining huge attention from the media and the Government.

## DESIGN – 9ltrs of Flexi-C-Ment and 36kgs of Cement per sqm

Treatment of fine granular sand (no imported aggregate)

5000sqm at 200mm deep

Equipment – Powder Spreader, Mill, Water Cart, Roller, Grader, Labourers

Project completed over the course of 1 day in 45degree + heat

## INSTALATION – H2BQ & RAD Contractors

Gravel Lock travelled to Dubai to meet with the Contractors and to oversee construction of the two installations. These particular jobs had to start late in the afternoon as the heat was in the high 40's. The speed of construction was paramount as the water was prone to evaporation and the polymer setting speed was up due to the heat. By the morning the Flexi-C-Ment had fully set and the pavements were put back into full use.

## THE PRODUCT PROVIDED THE BENEFITS TO THE PROJECT

- Massive savings on resources – cost effective solution
- Able to stabilize insitu fine granular sand
- Speed and ease of construction
- Lower maintenance costs on finished pavement
- Able to chip seal the finished pavement at a later date if required



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