

Marl Soil Stabilization

Tubil, Bahrain

December, 2010



Project Description: Terratech used T-PRO® 500 to improve road conditions on an industrial road.

Project Objectives: An industrial area in Bahrain was rendered impassable during wet weather. A section of the road was selected to evaluate polymer road stabilization using marl and sand materials. The road base material used for construction was a 3:1 mixture of sand and marl, a locally imported calcium carbonate deposit. The engineering properties of marl are better than sand, marl is typically blended with sand to create structural road base material, however marl loses much of its physical strength when wet and requires stabilization to maintain bearing capacity and hardness. Terratech T-PRO® 500 was infused with base materials creating a water resistant, wear course surface with excellent strength and resistance to surface deformation.

Equipment Used: Grader, Tractor with a PTO Driven Tiller, Water Truck with Hose Attachment, 10-ton Single Drum Vibrating Compactor

Application Specifications: Infused application with 1.25% polymer concentration and a topical seal coat at a rate of 120 ft²/gal.

Maintenance Requirements: Removal of loose material on the surface and a light topical re-application of polymer, on a typical 12 – 18 month cycle.



Corporate Headquarters

3945 E. Vernon Street
Long Beach, CA 90815
01 562 494 9500 phone
01 562 494 9565 fax

Global Distribution

Canada Saudi Arabia
Mexico Spain
Nigeria