

Marl Soil Stabilisation Tubli – Kingdom of Bahrain



Project: To improve road conditions on an industrial road.

Project Objectives: A section of the road was selected to evaluate Polymer Technology for road stabilisation 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. Marl is typically blended with sand to create structural road base material, Marl loses much of its physical strength when wet and requires stabilisation to maintain bearing capacity and hardness. Polymer Technology was mixed with base materials creating a water resistant, wear course surface with excellent strength and resistance to surface deformation.

Equipment: Road Grader, Water Truck with Pump and Hose Attachment, 10t Single Drum Vibrating Compactor.

Application Specifications: Infused application and a topical seal coat.