



United Arab Emirates

2015 – Umm al Quwain Industrial Road.

Polyroads were contacted in March 2015 to rebuild a road in the Umm al Quwain industrial area, that was showing severe stress cracks in the asphalt layer, due to base and sub-base layer failure, due to high water table.

The Challenge

The challenge faced was that non-plastic, insitu desert materials would have to be used for base and sub-base stabilization. Furthermore, a high water table was affecting the road.

The application is simple and cost effective;

- The road was excavated to 300mm. The subgrade was treated with a polymer to prevent water ingress from the water table.
- The 300mm material was then backfilled
- The top 150mm was stabilized with SoilTech Mk. III third generation stabilizer from Polyroads
- The road was then sealed with a conventional 30mm friction seal
- July 2020 – latest inspection. The road is perfect showing no signs of rutting or wearing.



- SoilTech Mk. III binder - Internationally Agrément Certified
- Roads - 10 Year Warranty with maintenance contract
- SMART MATERIALS
 - Internationally certified - WFTAO
 - Uses insitu materials
 - Stronger roads
 - Quicker construction
 - Cost effective
 - Longevity
 - Job creation
- SMART MATERIALS USES
 - Road Stabilization
 - Side walks
 - Parking lots
 - Natural Seals
 - Cycling paths
 - Dam Lining



2015 – during construction



2020 – Polymer Seal



2020 – 5 Years after construction

