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Subgrade Stabilisation | Reinforcement | Alberton, Gauteng, Raceway Industrial Park Jul 2013

Client	Capital Property		
Contractor	Advanced Projects	Consultant	BSM Baker
Product	**RockGrid® PC** 100/100 | 29 000 m^2	Rep	Christiaan Van Wyk

Problem

When Advanced Projects was awarded the contract to construct a platform onto which the new warehouse would be erected, the company was unaware that the geotechnical report on existing in-situ conditions was sub-standard.

Variable soil conditions included rubble and low-grade soils from surrounding projects. Difficult working conditions on site were rendered virtually untenable when sub-surface water and heavy rains created difficult working conditions with plant getting stuck in the already weak material. The contractor persevered, constructing layer upon layer without success.

Heavy rains and a mix of in situ material rendered conventional reinforcing methods ineffective.

Solution

A high tensile strength **RockGrid® PC 100/100** was recommended as subgrade stabilization. The amount of fill material and layer works on site was ideal for covering the **RockGrid PC** layer to place it under sufficient tension.

*29000sqm of **Rockgrid® PC** was used to reinforce the substrate.*

Benefits

The high tensile modulus of **RockGrid® PC** provides excellent reinforcement characteristics and minimum creep deformation. Construction of the platform was rapid and avoided the use of the more costly conventional method of importing dump rock and exporting spoil material. This saved the contractor millions of Rands on this project.