



**2021 – Beira Port  
Dry-bulk Storage Yard**

March 2021 - PM Civil Limitada, managed by Mr. Hentie Wentzel, was appointed by Cornelder De Mocambique, S.A, to upgrade, stabilize and to place a clinker brick seal over the dry-bulk storage depot at Beira Port, central Mozambique. Daily typical load bearing traffic is 12-15 tons/m<sup>2</sup>.

It was decided to use SoilTech Mk. III stabilizer, mixed with cement to achieve the required load-bearing capacity without sacrificing I.T.S

**DESIGN**

- 200<sup>mm</sup> modify sub-base with contaminated clinker and G5 type gravel material
- 200<sup>mm</sup> base-layer – insitu base-layer materials – stabilized with 0.5% SoilTech Mk. III polymer binder mixed with 3% cement – min 97% MOD AASHTO
- 120<sup>mm</sup> Z-lock type pavers placed on a 25<sup>mm</sup> bedding sand
- **DESIGN STRENGTHS ACHIEVED – 30 Days**  
0.5% SoilTech Mk.III mixed with 3% Cement /MDD

- Average UCS – **2.68 MPa**
- Ave. Indirect Tensile Strength – **423 KPa**



The World Federation of Technical Assessment Organizations (WFTAO).  
**Polyroads Certified**

- 2019 – Polyroads ‘s technology is Internationally certified by Agrément (CSIR)
- Environmentally Friendly Certified
- **SMART MATERIALS**
  - Internationally certified - WFTAO
  - Use insitu materials
  - Stronger roads
  - Quicker construction
  - Cost effective
  - Job creation



22 May base-layer preparation



Yard with inter-locking pavers



Arial View

