

Objectives

- To use Texas Gumbo Clay as a construction material.
- Soilbinder allows stabilizing the expansion of clay soils.
- To demonstrate how expansive soils chemically stabilized become impervious to water while increasing structural integrity.

Alamo Beer Company San Antonio TX

Existing Site Conditions

Concrete slab to be milled and removed





Quantities

Dimensions

- Length: 250 feet
- Width: 320 feet
- Area: 80,000 SF
- Depth to be treated: 10"
- Volume: 2,467 CY

Materials

- Clay: 5,920 CY
- Stabilizer: 6 drums
- Water: 12,000 gallons
- LKD: 120 tons

Construction

Construction Steps

Removal of concrete slab
 & any other under
 ground obstructions

Stabilization process

Paving and Striping

Milling of concrete slab

Removal and disposal of concrete and underground obstructions





Imported Fill Material To Reach Designed Grade

Gumbo clay from nearby construction sites was hauled in





Imported Material

#2 Base Material with 1 3/4" Rock to Amend Clay





Cement Kiln Dust spread at 4% dry weight of soil





SoilBinder solution and application over soil and CKD





Reclaimer mixing together clay soil, CKD and Stabilizer





Vibratory compaction using Steel wheel





Grading to final lines and elevation





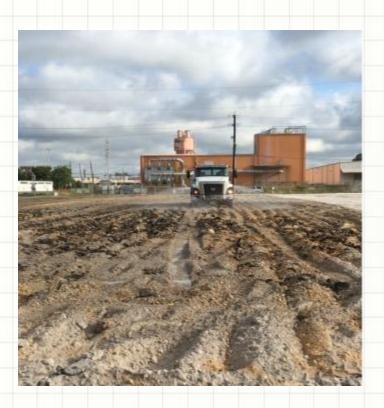
Sealing with Pneumatic compactor





Hydration with water for curing





After Three weeks of periodic heavy rains





Prime Coat / Asphalting

Prime and Asphalt Installation





Finalized Job

Striping & Parking Lot Completion

