



<u>Case Study</u> Soil Stabilization / Rotary Kiln / Virginia USA





Challenge Faced

A Virginia, USA limestone mine needed to move a large rotary kiln. However, the construction of the new pad necessitated cutting into the ground underneath the existing location of the kiln. The ground was a compacted blend of gravels, clay and sedimentary rock.

About the Project

Sub-Technical, using extensions, injected a single component urethane in a pattern reaching approximately half way underneath the kiln. Upon completion, the rock and soil were joined in a monolithic structure, holding the strata together. Excavators were then able to cut away the required section of the hillside, allowing for the preparation of the new pad.

<u>Summary</u>

Urethane stabilized and strengthened the substrate beneath the kiln, allowing for the safe excavation of the new kiln pad.

Key Benefits

- Although compacted, the polyurethane retains flexibility, unlike concrete which is very rigid and brittle
- Cure times for urethanes are measured in minutes, versus days for concrete
- Our HyperFlex urethane formulation is NSF 61 approved for contact with potable water, allowing for its safe use near streams, lakes and rivers

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