

# BASE-SEAL



## Case Study #5 - Parking Lot Lamar State University

BASE-SEAL IS A POLYMER BASED MATERIAL USED IN ROAD BUILDING AND STRENGTHENING APPLICATIONS. IT ENHANCES STABILIZING PROCESS BY ACTING AS A LUBRICANT ALLOWING THE LIME, LIME KILN DUST OR CEMENT TO MIX INTO THE INSITU MATERIAL MORE EFFICIENTLY. VEC CIVIL ENGINEERING HAS ACQUIRED THE RIGHTS TO SUPPLY PRODUCTS AND ARE NOW UNDERTAKING TRIALS IN AUSTRALIAN CONDITIONS. BASE-SEAL HAS WIDE VARIETY OF APPLICATIONS; PARTICULARLY AREAS SUBJECT TO WATER INUNDATION AND REMOTE AREAS WHICH NORMALLY REQUIRE IMPORT OF MATERIALS TO SITE. THIS IS ONE OF THE MANY CASE STUDIES.

FOR MORE INFORMATION, VISIT OUR WEBSITE: [WWW.VEC.COM.AU](http://WWW.VEC.COM.AU)

## INNOVATION

Parking Lot at Lamar State University Montague Convention and Sport Center Beaumont, Texas.

In April 1997, Base-Seal Liquid Stabilizer was used to treat the in-place material on a Lamar State University parking lot (Full-Depth Recycling).

Base-Seal Liquid Soil Stabilizer is an excellent catalyst for full-depth recycling, utilizing the old asphalt in place. This construction process was used on the above parking lot and completed in half the time (and cost) compared to a concurrent parking lot project in the area which used conventional methods of base stabilization (where the old asphalt was being hauled off and new base material being hauled in).

After treating the base with Base-Seal, Top-Shield liquid soil sealant was used as a "fog seal" to seal the surface.

Using a normal water tank truck with a spray bar, Top-Shield was applied at a rate of one half (1/2) gallon per square yard (a solution of 6 parts water to one part Top-Shield) to the roadway reclaimed base course or flexible pavement section surface in 2 or 3 applications. The Top-Shield "fog seal" is non-hazardous, environmentally safe, dries clear and provides for proper curing. After 3 days, the newly reclaimed parking lot was covered with two inches of hot mix asphalt overlay.

Inclement weather does not affect the soil stabilization process, other than periods of heavy rain. Water does not affect partially completed areas. Construction may resume immediately after inclement weather, with no regard for hauling in additional soil, as rain water will not wash away a partially stabilized area nor "leach-out" any soil previously treated with Base-Seal.

SOURCE: LTS ENGINEERING & MANAGEMENT LLC, TEXAS



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