BASE-SEAL

Case Study #4 - Western Road

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

Innovation

Western Road, Galveston County, Texas.

In 1987, Western Road was built with a 6 inches limestone base and stabilized with Base-Seal (BS-100) Liquid Stabilizer.

Two weeks after the base was cured the above base was under water for about 10 days during hurricane. No damage occurred on the base.

After the road was dried out it was then seal-coated with emulsion and rock.

As of November 2007, the same base remains solid.

Base-Seal (BS-100) Liquid Stabilizer Benefits:

- Increased soil bearing capacity;
- Reduction of coefficient of permeability;
- Control swelling in clay;
- Reduced plasticity index; and
- No adverse reaction to high sulfates.

Versatile

Base-Seal is a very effective additive for:

- Lime or soil cement;
- Saving costs; and
- Adding strength.

Environmentally Safe

- Base-Seal is cost effective and easy to use simply dilute in water and then apply;
- No special procedures or handling;
- It is easy applied with common road construction equipment;
- Contains no acids or erosive materials; and
- It is not subject to special DOT, OSHA, or EPA requirements for transportation, storage or disposal of containers.

Source: LTS Engineering & Management LLC, Texas

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