EMC SQUARED® SYSTEM

ADVANCED BASE STABILIZATION "THICKENS" EFFECTIVE PAVEMENT LAYER

EMC² Stabilized Base Course Prepared for Paving

The Pavement Surface Course

The access roads, trail system, parking areas and work areas at the Springs Preserve are surfaced with a NaturalPAVE® XL Resin Pavement™ mixture that blends with the tannish white local soil and rock materials and provides "cool pavements" for a site where 115°F summertime temperatures are common. The NaturalPAVE XL Resin Pavement was tested throughout the design and construction process. Using test procedures standardized for flexible pavements such as hot mix asphalt, materials engineers verified that the NaturalPAVE XL Resin Pavement demonstrated significantly higher stability values (resistance to rutting) than typical hot mix asphalt.

The Stabilized Base Course

The aggregate base course material was treated with SSPCo's EMC SQUARED® Stabilizer, an economical concentrated liquid stabilizer treatment for base course materials that increases stability without the excessive rigidity (cracking) typical of cement treated base (CTB) materials. In testing conducted at University of Nevada Reno (UNR), the EMC SQUARED System treatment improved the resilient modulus of base course material by a factor of more than 5 times. Materials engineering consultants Professional Service Industries (PSI) provided layer equivalency factors (See Reverse)and commented that **the treated base course had a layer equivalency factor and load carrying capacity approximately equivalent to that of typical hot mix asphalt pavement.**

"...the treated base course had a layer equivalency factor and load carrying capacity approximately equivalent to that of typical hot mix asphalt pavement."

To learn more about Soil Stabilization Products Company and the EMC SQUARED System visit www.sspco.com

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Paving In Progress On Stabilized Base

The Structural Section

Resilient Modulus testing evaluates the response of a pavement or base course material to dynamic loading. This test method is regarded by AASHTO (American Association of State Highway and Transportation Officials) as the primary factor in characterizing materials for highway pavement applications.

As indicated in the Resilient Modulus test results and the layer equivalency factor provided below for the aggregate base course treated with EMC SQUARED, the structural section on this project is more representative of "full depth asphalt", rather than the typical flexible pavement layer on top of a weaker base course with distinctly different engineering characteristics. Given the low cost of the EMC SQUARED Stabilizer treatment, the pavement life-like performance of the stabilized base provides a highly economical method of "thickening" the effective pavement layer.

Resilient Modulus Results and Layer Equivalency Factors

Sample ID	Average Resilient Modulus (psi)*	Layer Equivalency Factor**
Aggregate Base with EMC SQUARED	272,500	0.35**
Untreated Aggregate Base	51,000	0.10

*Resilient Modulus results reported by UNR
**Professional Service Industries, Inc.
*** Standard practice in Southern Nevada is to assign a layer coefficient of 0.35 for dense graded hot mix asphalt.

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