

HR-257 Field Demonstration of Foamed Asphalt

Key Words: Foamed asphalt, Seal coats

ABSTRACT

The foamed asphalt concept has been around since the 1950's. Rising oil prices have created a renewed interest in this process. The purpose of this project was to construct an asphalt base using the foamed asphalt process and to evaluate its performance.

A 4.2 mile length of Muscatine County road A-91 was selected for the research project. Asphalt contents of 4.5% and 5.5%, moisture contents of 70% and 90% of optimum, and fog, single chip, and double chip seal coats were used in various combinations to lay 9 test sections of 4-inch foamed asphalt base.

After five years of service and evaluation, several conclusions can be made concerning the performance of the foamed asphalt bases.