

## **HR-360 Field Evaluation of Engineering Fabrics for Asphalt Concrete Resurfacing**

**Key Words:** Asphalt Concrete, Asphalt Overlay, Reflective cracking, Engineering fabric

### **ABSTRACT**

An ACC overlay is most often the rehabilitative effort used to maintain the serviceability of either an ACC or PCC pavement. The major problem in durability of this ACC overlay comes from reflective cracking. These cracks usually open, allowing water to enter the unsealed crack and strip the ACC in the overlay. The stripping of the ACC allows accelerated deterioration at the crack.

Two engineering fabrics were evaluated in this project in order to determine their effectiveness in reducing reflective cracking. These two materials are:

- PavePrep, Contech Construction Products Inc.
- Pro-Guard, Phillips Fiber Corporation

A 4.2 km (2.6 mi.) roadway in Audubon County was selected for the research project. The roadway was divided into eight test sections. Four of the test sections are conventional resurfacing. The other four sections are split between the two engineering fabrics (two Pro-Guard and two PavePrep). A 75 mm (3 in.) thick overlay was placed over the entire project.