

# SAVE MY **ROAD**

**Problem:** Block and reflective cracking

**Solution:** Modified triple chip seal

## Success Story: Modified Triple Chip Seal

In 2005, the Georgia Department of Transportation (GDOT) moved away from chip seal treatments due to vehicle damage caused by loose stone and friction loss related to bleeding. However, GDOT sought to bring the process back by changing both the construction methods and the materials used. The GDOT Maintenance Department determined that a pilot project, called a triple chip seal, would be the most appropriate way to test the new approach.

A 9.5-mile section of State Route 233 in Wilcox County, south of Hawkinsville, Georgia, was selected to be the location for the pilot project. The roadway was affected by both block and reflective cracking and required resurfacing. Conserving funds while preserving the roadway and protecting their investment was an important goal for the County.

While typical chip seal methods were not recommended to address these types of distresses, the triple seal method would provide the layer thickness and extra binder needed to repair the pavement failure. The construction process consisted of sequential application of progressively smaller aggregates; ASTM#7s followed by #89s and then washed #10s. This approach resulted in a much smoother surface, significantly reducing the potential for windshield damage. The use of CRS-2P was required as the emulsion ensured a polymer modified binder, which assisted in aggregate retention and reduced the potential for bleeding.

GDOT's in-house crew performed the project with no construction issues. The road's life has been extended and is not expected to require any additional treatments for the foreseeable future.