

NCHRP 20-44(26) Demo Project Mississippi DOT Microsurfacing

Project Overview

This Mississippi Department of Transportation (MDOT) project involved the application of a micro surfacing treatment on 17.5 miles on MS State Route 18 in Clarke County, Mississippi. The pavement is 2 lanes in each direction with a maximum ADT of 550 vehicles per day. The previous surface was a chip seal and was in good condition making this an excellent candidate for micro surfacing.

The specification for the micro surfacing project was developed by modifying the existing MDOT micro surfacing specification and inserting some of the elements of the AASHTO micro surfacing specification. Some of the AASHTO elements that were included were: updated material requirements, updated mix design tests, a preconstruction meeting, and a quality control section. The general contractor was T.L. Wallace Construction out of Columbia, MS.



The project scope included surface preparation, calibration of the materials, and the placement of Type II micro surfacing.

Project Details At-a-Glance

Agency:	Mississippi DOT
Route/Location:	State Route 18/Clarke County, MS
Area/Length:	17.5 miles (intersection of SR 511/18 to Alabama State Line)
Pre-Condition:	Fair Condition (weighted PCR of 75)
Completion Date:	August 2021
Materials:	CSS-1EP (emulsion) ISSA Type II (aggregate) Portland Cement (mineral filler)
Application Rates:	25.4 lb/sy
Weather:	84°F, 81% humidity, partly cloudy

