

Project Profile

General Project Information

Project Location: Kansas Department of Transportation (KDOT)
McPherson County–Interstate 135 East to Marion County Line
Road Owner Contact: Joe Palic–KDOT Area engineer
Project Length: 14 miles–260,000 square yards
Date Placed: July 2006

With the pavement showing signs of minor to moderate cracking, KDOT decided it wastime to recycle and resurface using two of Road Science’s most innovative technologies: Restore® and NovaChip®. The Restore® process utilized six heater units (three straight heaters and three heaters with mills) to heat the pavement and then mill down ½ to ¾ inch. The road was 30 feet wide.

Construction Information

Contractors: Dustrol (Restore®), Hall Brothers (NovaChip®) and APAC (Prime Contractor)

Construction Notes: The pavement was constructed while maintaining traffic in the adjacent lane. On average, the Restore® process was able to recycle 2.5 miles per day on the 30 foot wide pavement.

Traffic Return: Immediately following construction. The interstate has a 70/30 split between passenger cars and semis and an Average Daily Traffic (ADT) of around 2,000.

Surfacing: The project was a 2” Restore® treatment, with a Type B NovaChip® as the surface

Photos

Surface Before Recycling



Restore® Hot In-Place Recycling Process



Recycled Pavement



Design and Performance Results

The mix design consisted of 1.5% Restore® emulsion added to the hot recycled pavement with the Restore® equipment. The design indicated that the pavement will have both excellent thermal cracking and rutting performance. The ride of both the Restore® and NovaChip® surfaces exceeded KDOT’s expectations.

For more on this project, the Restore® process or other solutions available in your area, contact your local Road Science™ representative.

