

Problem:

Improving
pavement
preservation
index

Solution:

Hot in-place
recycling

Success Story: Hot In-Place Recycling

In Ellsworth and Lincoln County, KS, the Kansas Department of Transportation (KDOT) determined that a 39-mile stretch of road was in need of pavement preservation. While the existing structure was in good shape, there was significant cracking and oxidation present in the surface. The team believed they could improve the surface by using Hot In-Place Recycling (HIR) with a chip seal to serve as a wearing course.

The road carried a high percentage of heavy truck traffic, which had caused the cracks and oxidation. To complete the project with minimal delays, KDOT provided a two-lane traffic control with pilot car. All of the roadway distresses were repaired within 31 days.

The entire project required 170,909 gallons of ARA-2P to complete the HIR process. KDOT had used HIR for years and saved the state millions of dollars over the conventional mill and fill option.

The process successfully improved the Pavement Restoration Index, and it is estimated that the extended life of the roadway is seven to ten years. Due to the success of this project and a successful history of HIR, KDOT plans to continue using this process in the future.

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