

Mass cracking of roadways in Yuma County, AZ, had become so severe, they required immediate attention. After evaluating all of the options and taking budget constraints into consideration, a rejuvenating chip seal was chosen as the best solution to the challenge.

**PROBLEM:**

Mass cracking of roadways in Yuma County, AZ, had become so severe, they required immediate attention.

**SOLUTION:**

A specialty broom sled was attached to the distributor truck to mechanically force the rejuvenating emulsion into the voids and cracks of the roadway. While this method can be time-consuming, production times were comparable to conventional chip seal methods. The roads remain in good condition three years after project completion. Patches placed prior to the treatment resulted in minimal bleeding. A few of the extremely large cracks have seen small hairline cracking return; however, the vast majority are still completely sealed. To address friction loss that usually comes with a scrub seal, Yuma County typically places another chip seal surface within six months of construction completion; however, the chosen formula negated the need for another layer further reducing the cost of repairing this roadway.