

Problem:

Mass cracking

Solution:

eScrub

# Success Story: Rejuvenating Scrub Seal

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, eScrub, a rejuvenating chip seal, was chosen as the best solution to the challenge.

Ergon Asphalt & Emulsions formulated a mass crack fill emulsion, CMS-1PC, using cutting-edge technology and materials. The emulsion was manufactured using a PG 64-22 base and included the proven rejuvenator Reclamite, plus a durable polymer modifier. The aggregate provided by Yuma County met ISSA type II requirements, which made it ideal for the project.

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.

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