

Award Winning Project Uses RAP in Surface Treatments

By Imelda Diaz, Los Angeles County

Los Angeles County is very committed and focused on developing cost effective, innovative, and sustainable solutions to address the repair of our roadways for the motoring public. With the help of suppliers and contractors such as Western Emulsions and Pavement Coatings, we were able to accomplish these objectives for this special project and win a California Chip Seal Association (CCSA) award.

The Escondido Canyon Road, et al., Project actually consisted of preserving 13.4 miles of pavement on three different County roads:

- Escondido Canyon Road from Agua Dulce Road to Syracuse Avenue (first constructed in 1953 with last treatment in 1999)
- Soledad Canyon Road from Antelope Valley Freeway to 2,775 feet east of Mile Marker 14.00 (first constructed in 1936 with last treatment in 1985)
- Syracuse Avenue from Escondido Canyon Road to Crown Valley Road (first constructed in 1935 with last cape seal in 1991)

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The award winning team ... Greg Kelley and Imelda Diaz (LA County), Jim Emerson (Pavement Recycling), and Kevin Donnelly (Western Emulsions)

The goal of the project was to provide a cost effective, sustainable treatment that would extend the pavement service life and improve the rideability of the road. The pavement treatment included: (1) micro-milling the road surface, (2) placing a 5/16 in PASS CR

scrub seal, and (3) applying a micro-surfacing wearing surface. By applying the PASS CR chip retention emulsion as an interlayer, the road's distressed surface was sealed from the elements while rejuvenating the underlying HMA pavement. The micro-milling and the final micro surfacing helped create a smooth, long lasting wear surface.

One of the significant aspects of this project was meeting the County's 2012 goal of utilizing 100% Recycled Asphalt Products (RAP) for all pavement preservation projects located within the northern part of the county. The Escondido Canyon Road, et al., Project utilized RAP for both the scrub seal and the micro-surfacing treatments. It was the first project constructed by the County that met that goal.

One of the other significant components that made this project even more of a success was the innovative use of micro-milling performed prior to the application of the scrub seal. The high differential in temperatures for the region had resulted in numerous transverse thermal

cracks, making the ride very rough. By including the micro-milling process as part of this project the rideability was improved significantly.

The project was completed on time, and by incorporating the use of recycled materials (RAP), the project came in \$80,000 under budget. It's considered a huge success for the County. The contract costs averaged about \$7.00 /yd².

"By utilizing 100% RAP on this project the County was able to preserve the roadway, save taxpayer money, and reduce green house gas emissions. In addition, Micro-milling the pavement surface



prior to the cape seal significantly improved the rideabilty of the

Application of PASS CR for the scrub seal

road. The success of this project has provided a path to greener options in treating our pavements in the future. We are very proud to receive the CCSA award and thank Western Emulsions and Pavement Coatings for their efforts and support," said Greg Kelley, Assistant Deputy Director for L.A. County Department of Public Works.

For more information contact Imelda Diaz at: IDIAZ@dpw.lacounty.gov.

