



"Tomorrow's Technology for Today's Problems®"

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Caltrans Utilizes 100% RAP "HyRAP®" Hot Mix Asphalt to Address its Core Goals of Cultivating Excellence, Stewardship and Efficiency, Climate Action and Equity and Livability



Placement of HyRAP® Hot Mix Asphalt

As part of its efforts to "accelerate advanced technology," Caltrans recently embarked on a pilot project to test the use of 100% reclaimed asphalt pavement (RAP) "HyRAP®" hot mix asphalt on a major freeway connector/offramp in downtown San Diego. The project focused on repaving several sections of the SR 163 to I-5 connector including the I-5 Hawthorn Street northbound offramp, which is the main exit to the San Diego International Airport.

"Caltrans is always looking at innovations to improve performance and use more sustainable pavements, while addressing equity and climate action" said J. Shawn Rizzutto, Caltrans District 11 Maintenance Division Chief. "We realize that state law will require emissions return to 1990 levels by 2020 and reach 40 percent below that marker by 2030. To reach these requirements, we need to look at all options, including sustainable pavement options, such as HyRAP® hot mix asphalt."

Caltrans has been a leader in encouraging the usage of reclaimed asphalt pavement (RAP), but until this project, has not used any hot mix asphalt products that contain more than 40% RAP materials. For this project, 100% RAP was used, leading to a significant reduction in Greenhouse Gas Emissions (GHGs), as it eliminates the need for mining, as well as the production and transportation of virgin aggregates and virgin paving grade asphalt.



I-5 Connector Ramp, Downtown San Diego Skyline



Hawthorn St. offramp to San Diego International Airport

"There are direct environmental benefits with the use of HyRAP® hot mix asphalt, providing a sustainable solution for engineers, contractors, and owners. Caltrans strives to lead climate action by reducing Vehicle Miles Traveled (VMT). Equity is addressed by the use of HyRAP®. People's lives and communities are improved by reducing the large RAP piles primarily located in underserved communities. Partnerships between Caltrans and Industry have made this possible, and the planet is improved by reduction of GHG's, PM10 and VMT," added J. Shawn Rizzutto of Caltrans.

Caltrans will be conducting construction and performance monitoring of the material in the months to come, to evaluate the HyRAP® hot mix asphalt.

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Senator Leyva Visits MAI – HyRAP® Colton Plant

MAI – HyRAP® was pleased to welcome California State Senator Connie Leyva, representing the 20th District, to the 100% sustainable HyRAP®, hot mix asphalt plant in Colton several weeks ago. The Senator represents most of the Inland Empire.

Senator Leyva was interested in learning about the environmental benefits of HyRAP®, as compared to conventional hot mix asphalt. Conventional hot mix asphalt is a combination of virgin aggregate and virgin paving grade asphalt (oil). HyRAP®, however, is produced using recycled asphalt and petroleum rejuvenators – resulting in a reduction of 100% of virgin aggregate and 70% in virgin petroleum products. Paving streets with HyRAP® Composite Layering Systems significantly reduces an agency's carbon footprint by eliminating the need to mine and transport virgin aggregate and oil and preventing reusable asphalt grindings from being sent to California landfills or stored in our local communities.



Senator Connie Leyva (left) at HyRAP® Hot Mix Asphalt Plant

In addition to its environmental benefits, HyRAP® also provides local constituents with more convenience than traditional paving practices. Streets are returned to use more quickly and lives are impacted less in our local communities.

“I was very excited to learn that sustainable alternatives to traditional paving materials are being manufactured right here in Colton,” said Senator Leyva. “I hope we can use HyRAP® on streets all over the Inland Empire so that my constituents can reap these benefits directly.”

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