

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

Vol.1, November 2022

Huntington Park Uses HyRAP® Hot Mix Asphalt to Improve Streets, Limit Air Dust Pollution



The City of Huntington Park recently completed its first HyRAP® Hot Mix Asphalt (HMA) on Asphalt Rubber Aggregate Membrane (ARAM) project on several of its streets. The City's Public Works & Community Development Departments decided to use HyRAP® HMA on ARAM for several reasons, all focused on providing the best results for their residents.

Using HyRAP® HMA on ARAM allowed Huntington Park to stretch its paving budget and pave additional streets.

"HyRAP® HMA on ARAM is another tool in our toolbox for pavement preservation in Huntington Park," explained Community Development Director Steve Forster. "I first saw the successful use of the product in nearby Montebello and was confident that it would work well for us too."

In addition to saving money, using HyRAP® HMA on ARAM limited the amount of dust impacting neighborhoods. Traditional grinding (cold planing) of existing pavements, combined with sometimes several days between grinding and repaving, produces substantial dust in neighborhoods. The HyRAP® HMA on ARAM process limits the amount of grinding and also restores the street almost immediately, eliminating days of dust in neighborhoods.

"We see a lot of benefits to our residents with HyRAP® HMA on ARAM; the inconvenience to our residents for a significantly shorter period, less dust in the air, and great drivability."

~Steve Forster, Community Development Director

City of Huntington Park

Steve Forster was Public Works Director for 23 years in the City of La Mirada and made this comparison: *"Huntington Park is also a uniquely dense city, it is 3 square miles with 70-80,000 residents, La Mirada is 8 square miles with 50,000 people."* For this reason, street parking is a commodity in the City. The ability to quickly repave streets with HyRAP® HMA on ARAM allowed Huntington Park to return the streets, and much needed parking spaces, back

to its residents much faster than traditional repaving.

The City is also one of the region's oldest, at almost 100 years old, with infrastructure up to five decades old ([See Historical Note below](#)). As such, the city streets show their age through the many utility cuts and patch work commonly seen. By using **HyRAP®** HMA on ARAM, the City was able to cover these defects and present its residents with streets that look like new and drive like new.

Forster went on to say, "We see a lot of benefits to our residents with **HyRAP®** HMA on ARAM; the inconvenience to our residents for a significantly shorter period, less dust in the air, and great drivability." He added, "The type of material and quality control of the project limited the types of tracking we see in traditional repaving. Finally, the environmental benefits of using fewer trucks, not having to landfill more grindings, and the use of fully recycled materials makes it perfectly clear that this is not your grandfather's paving material."

Conventional hot mix asphalt is a combination of virgin aggregate and paving grade asphalt (oil). **HyRAP®** is produced almost entirely using recycled asphalt and petroleum rejuvenators – resulting in a reduction of 100% of virgin aggregate and 70% in 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.

Historical Note...



The Los Angeles Paving Company, owned and managed by the Werdin family, was an important business enterprise in 20th century Southern California. Ernest R. Werdin was born in 1869 in Minnesota and moved to Los Angeles in 1886. In 1902, he was elected Superintendent of Streets of the City of Los Angeles, which probably gave him opportunities to establish extensive connections for his future paving business. In 1912, he started the Los Angeles Paving Company. After his death in 1932, his son E. Russell Werdin inherited and continued the business. (Courtesy of Online Archives of California, [HERE](#))

HyRAP® Stands Up Over Time

Many local Southern California cities are embarking on **HyRAP®** Hot Mix Asphalt (HMA) projects. Municipalities are embracing the advanced technology for several reasons. The use of 100% recycled materials is usually the initial reason to try **HyRAP®** HMA. But, drivability, the ability to stretch budgets, and shortened repaving timelines and inconvenience are also reasons many cities are trying **HyRAP®** HMA. A new report now shows that **HyRAP®** is also more durable over time than conventional HMA.

A recent review of a 10-year old project constructed in the summer of 2012 in Fort Wayne, Indiana showed that **HyRAP®** HMA has held up well with minor hairline cracks, even in the harsh freeze/thaw conditions of Indiana.

"The use of **HyRAP®** is an excellent example of a truly green technology with the added benefit of increased durability over conventional hot mix asphalt," said Bill Hartman, Allen County Highway Director, who was in 2012, and is currently in 2022, the Highway Director.

The purpose of the project, completed in the Summer of 2012, was to compare **HyRAP®** HMA with conventional HMA over time. While the **HyRAP®** HMA (pictured on right) only showed a bit of regular wear and hairline cracks after ten years, it held up significantly better than the conventional hot mix asphalt (pictured on left) that had many more cracks, including alligator

crack patterns and overall, appeared much more distressed as compared to the HyRAP® HMA sections.

Geoffrey M. Rowe, Chartered Engineer, P.E., Ph.D., a respected expert in asphalt technology with more than 45 years of experience, completed a report on the project 10-years ago. The report ([Download Report](#), [Download Presentation](#)), an analysis of the mix and binders in the hot mix asphalt, predicted that the HyRAP® HMA would perform well over time.

“Ten years ago, I predicted that HyRAP® HMA would perform as well as conventional hot mix asphalt. Today, we can see that predication was correct,” explained Rowe. “Now, with an additional ten years of improved technology, public works professionals should have full confidence in the durability of HyRAP® HMA over time.”

Durability and longevity—a new proven reason to use HyRAP® HMA!



**Current Condition of Conventional HMA
Control Section Placed October, 2012.**



**Current Condition of HyRAP® HMA Test
Section Placed October, 2012.**

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