

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

Vol.2, September 2023

THE SUCCESS STORY OF HyRAM™ AFFORDABLE AND LASTING INFRASTRUCTURE



BEFORE - JULY 2020



AFTER - AUGUST 2023

"After three years, Montebello's HyRAP® projects are holding up well. This pavement system was used on streets that would have otherwise needed complete reconstruction and they were completed 40 to 50 percent cheaper than reconstruction. I confidently can say that the system is performing as well or better than other pavement strategies we have used for similar streets.

It's really a win-win for Montebello."

James Enriquez, Director of Public Works/City Engineer, City of Montebello
August 2023

HyRAP® Hot Mix Asphalt has now been used in multiple cities, municipalities, and by Caltrans in Southern California and has emerged as an excellent example of high-quality street construction, completed with less cost and fewer impacts on residents.

These cities have primarily been using a two-step process. The overlay material, **HyRAP®** hot mix asphalt (**HyRAP®**), is applied over an Asphalt Rubber binder, which is a combination of paving grade asphalt and crumb rubber derived from scrap tires, followed by a cover aggregate, referred to as ARAM. The ARAM provides a crack resistant, waterproofing membrane. The **HyRAP®** cap course provides a smooth riding, esthetically pleasing surface. This two-step process is referred to as **HyRAM™**. (For more information about the process, click [here](#)).

BENEFITS OF USING **HyRAP®** HOT MIX ASPHALT (**HyRAP®**) ON AN ASPHALT RUBBER AGGREGATE MEMBRANE (ARAM) = **HyRAM™**

1. COST EFFICIENCY:

HyRAM™ is saving money for cities that are using it in place of full reconstruction for damaged streets. In fact, the City of Montebello found that even the worst streets previously requiring full reconstruction, rated as low as a 10 PCI, can be rehabilitated with **HyRAM™**, saving both money and time.

*"The condition of the streets in Montebello were poor, with hundreds of miles of road with serious deterioration, water damage, and potholes. Using **HyRAP®** saved the city 40% on what it would have cost to reconstruct the streets."*

~ Rene Bobadilla, previous City Manager, Montebello, current City Manager, Santa Fe Springs ([Newsletter Apr. 2023](#))

"Our most damaged streets were repaired, and additional streets that we hadn't believed we had budget for were able to be included. It was a great and successful project."

~ Gerald Montgomery, Deputy Director, Pico Rivera Public Works ([Newsletter Sep. 2022](#))

2. DURABILITY AND PERFORMANCE:

HyRAM™ projects are standing up over time. A recent review of a 10-year old project in Fort Wayne, Indiana showed that **HyRAP®** has held up well, even in the harsh freeze/thaw conditions of Indiana. Closer to home, in Montebello, where streets were repaved more than 3 years ago, the streets continue to look new and drive smooth.

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

~ Geoffrey M. Rowe, Chartered Engineer, P.E., Ph.D., Industry Expert ([Newsletter Nov. 2022](#))

"Now that the project is complete, I am impressed with the smoothness and rideability of the streets and look forward to their performance in years to come. Delivering optimum streets to our residents while implementing sustainable solutions that reduce the impacts on our environment are wins for the community and our future."

~ Gilbert Hernandez, Deputy Director / City Engineer, Public Works Department, City of Riverside ([Newsletter Jun. 2022](#))

3. FEWER CONSTITUENT IMPACTS:

In addition to saving money, using **HyRAM™** limits the driving and dust impacts to neighborhoods. Traditional grinding of existing pavements produces substantial dust in neighborhoods. Additionally, residents and businesses get their streets returned to them much quicker when using **HyRAM™** compared to traditional rehabilitation strategies, eliminating days of disruption in neighborhoods.

"The pavement process was very fast, with each step taking a day rather than weeks and traffic was allowed back on affected streets at the end of each workday."

~ Kimberly Ann Cobos-Cawthorne,
previous Mayor, Montebello
([Newsletter Apr. 2022](#))

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

~ Steve Forster, Community Development Director, Huntington Park
([Newsletter Nov. 2022](#))

4. SUSTAINABILITY:

HyRAM[™] maximizes the use of reclaimed asphalt pavement (RAP) material without compromising performance, while cutting Green House Gas Emissions (GHG's). The sustainable choice for agencies should always be **HyRAP**[®] Hot Mix Asphalt.

*"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."*

~ Bill Hartman, Highway Director, Allen County ([Newsletter Nov. 2022](#))

*"Caltrans is always looking at innovations to improve performance and use more sustainable pavements, while addressing equity and climate action. 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."*

~ J. Shawn Rizzutto, 11 Maintenance Division Chief, Caltrans District 11
([Newsletter Jul. 2022](#))

Your city can join the growing list of those using **HyRAM**[™] to pave and reconstruct streets in Southern California and reap all the benefits for your constituents, your budget, and the environment.

[Contact us](#) today to learn more.

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