

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

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WHAT IS HyRAM™?

$$\text{ARAM}_{(1^*)} + \text{HyRAP}_{(2^*)} = \text{HyRAM}_{(3^*)}$$



ARAM

ARAM Binder (1*)



ARAM Cover Aggregate (1*)

+



HyRAP®

HyRAP® Surface Coarse (2*)

=



BEFORE CONDITION



FINISHED HyRAM™ (3*)

** Numbered photographs correspond to descriptions in numbered paragraphs below.*

HyRAM™ is a composite layering system comprised of two (2) distinct applications.

1. The first application on the existing pavement, after preparatory work such as skin patching, crack sealing, and isolated dig-outs have been completed, is the Asphalt Rubber Aggregate Membrane, acronym **ARAM**, consisting of Asphalt Rubber binder, which is a combination of paving grade asphalt and crumb rubber derived from scrap tires, and is spray applied onto the pavement surface. Cover aggregate is applied to the Asphalt Rubber binder, and excess aggregate is swept off the surface, providing a crack-resistant and waterproof membrane.

2. The second application is a thin overlay (1 inch or less) over the **ARAM**. The overlay material is a **HyRAP®** hot mix asphalt, consisting of a fully sustainable paving material with its aggregate component comprised of 100 percent reclaimed asphalt pavement (RAP).

3. The finished **HyRAM™** product, consisting of the (2) two applications described in paragraphs 1 and 2 above, provides the following benefits:

- Streets slated for reconstruction with a solid sub-base can utilize **HyRAM™** with cost savings of up to 50 percent
- Proven performance both in freeze-thaw climatic conditions and heavy truck traffic loading applications
- Less disruption to the public compared to other construction methods, allowing easy in and out traffic from residential neighborhoods during all phases of construction
- Enhanced rideability compared to other preventative maintenance treatments
- Sound Environmental Stewardship
 - *Reduction of Greenhouse Gas Emissions (GHG)*
 - *Conservation of landfill space*
 - *Reduction in vehicle miles traveled (VMT) during construction operations*

Do your part for the environment. Become a sustainable agency and provide your residents with a long-lasting, quality pavement surface.

Do Your Streets Look Like They Have Been "Carpet-Bombed"?



POTHOLING CAUSED BY RECENT RAIN EVENTS

Following the intense rains (14 atmospheric rivers!) we have seen in the region over the past several months, many cities are focused on repairing roads that are significantly damaged. While **HyRAM™** is the most sustainable of any paving process, it is also the perfect solution for any city looking for quick, long-lasting results with little public inconvenience.

Significant road repairs can take weeks, if not months, posing challenges to residents and visitors. Generally, the time a road is closed for repairs drops from weeks to days with **HyRAM™**. Residents will also reap the long-term benefits of **HyRAM™**, which lasts longer than solely conventional hot mix asphalt, resulting in less frequent street closures needed to maintain and repair the streets.

Let us assist you to rapidly prepare and advertise a **HyRAM™ project to rehabilitate your damaged and deteriorated streets.**

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