

THE BEGINNING OF THE END OF END OF LIFE TIRES

1.3 BILLION TIRES ARE DISCARDED EVERY YEAR GLOBALLY







"EVERY ATOM COUNTS"

CREATING ELASTONERS FROM TIRES

Now that the mix is moving again what's next?



PRISM[™] Thermoplastic Rubber

ZERO HEAT used in the process	100% polymers preserved
IST to convert thermoset rubber into thermoplastic rubber	SAVES the carbon black in the ELT
SUSTAINABLE innovation leading the asphalt industry to become even more consequential	7 PATENTS pending



PRISM[™] Enhanced Asphalt Rubber

ASPHALT BINDER+PTR[™] = PEAR[™]

Providing industries with innovative, sustainable enhanced asphalt

STABLE

PRESERVES valuable components

OXIDATION

in the ELT

UNBROKEN crosslinks

resistant

MOLECULAR EFFECT

interfuses with asphalt at an atomic level

PTRTM MAKES ASPHALT LAST LONGER

Testing has shown that binder infused with PTR[™] degrades more slowly when testing via Pressure Aging Vessels (PAV)

Longer lasting binder = longer lasting roads

Why? Carbon black from the tires protects the binder from UV degradation.



416364 miles of road with IRI of >95 57% of roads in the US are in less than good SEVENOUT OF EVERY 100 MILES OF ROADWAY NATIONWIDE ARE IN POOR CONDITION**

Source: Bureau of Transportation Statistics

MORE DURABLE ROADS = LESS FAILURES ROADS THAT REDUCE CARBON EMISSIONS

NO FUMES OR ODORS

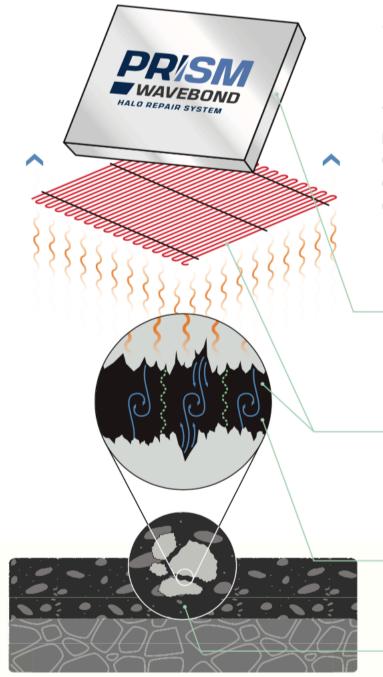
Hot Mix Asphalt roads built with **PEAR™** will last longer and be more durable than existing asphalt roads.

PEAR[™] roads will have reduced
running resistance and be smoother
which equals less fuel wasted and
reduced carbon footprints.

Use of **PTR**[™] and **PEAR**[™] means that agencies can use Rubber in roads without complaints from their constituents or AQMD Boards.







WAVEBOND[™] HALO[™] Repair System Fast, Green, Permanent.

WaveBond[™] HALO[™] Flat Panels are attached to a portable platform so crews can quickly move to trouble spots and efficiently perform repairs. This high-speed process, in conjunction with our PEAR[™] ready mix repair material is fast, green and effective for permanent pavement repairs.

CONFIGURABLE FLAT PANELS

WaveBond[™] panels incorporate HALO[™] Pulse-Wave electronics to create phononic waves that heat the pavement below the panels to a depth of 2" in 4-8 minutes. The system is run with the latest clean energy using a 480V 3-Phase Tier 4 AC generator.

NO OPEN FLAMES

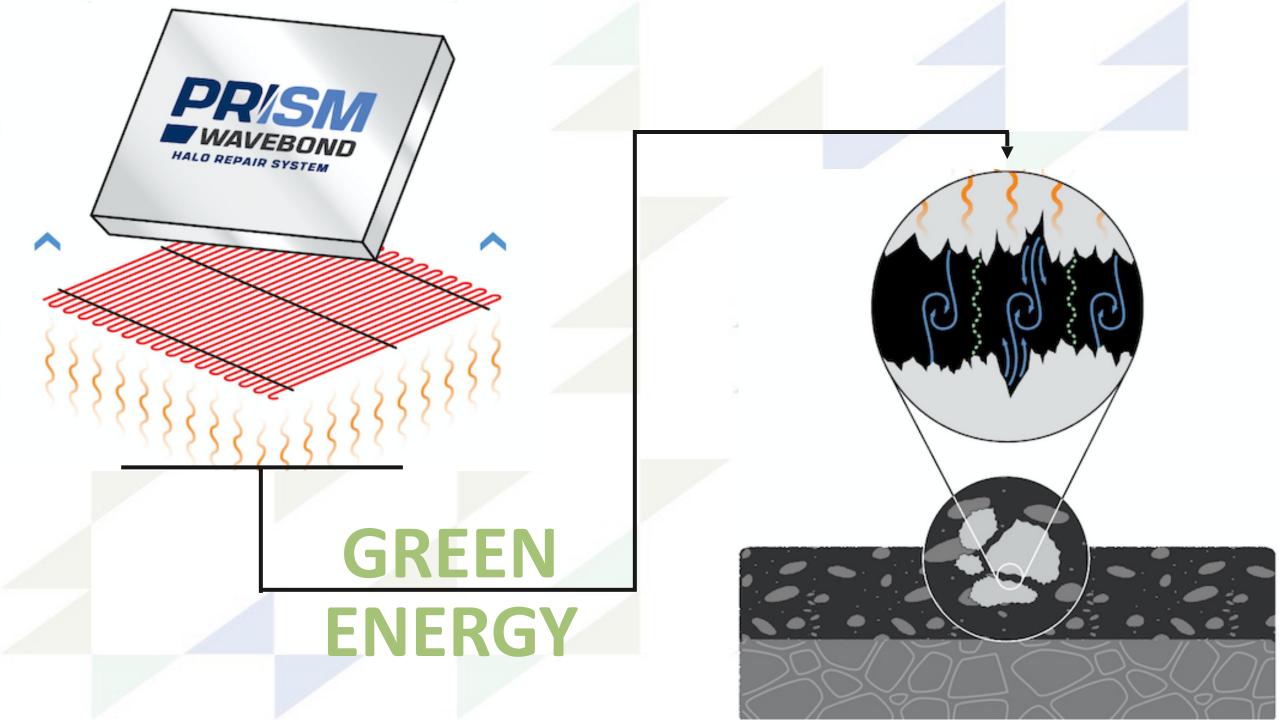
Much like heating coffee in a microwave, you don't heat the cup you heat the contents. **HALO**[™] Pulse-Waves heat only the binder around the aggregate into a liquid form that flows. It can then be re-bonded with new materials.

JUST ADD PEAR™

Adding **PEAR[™]** ready mix material to the liquid binder strengthens and enhances the existing pavement materials. **PEAR[™]**, when mixed with the original binder, creates a sulfidic bonding of the non-oxidized binder material. And just like that, you have our **PTR[™]** recycled materials seamlessly blended into any pavement repair.

STRONGER, MORE DURABLE ASPHALT











RESULTS

Lancaster, California

Heavy bus route Highly Oxidized









MORE TO COME NEXT YEAR IN PORTLAND...

FOR MORE INFORMATION: SCOTT DMYTROW

