



Quieter ride, lower carbon emissions

A quieter ride + lower carbon emissions.





Did you know? Two important factors in auto

design are reducing weight and keeping the interior quiet from noise and vibrations.

vibration noise include heavy bitumen or butyl rubber pads. These pads have to be die-cut and manually positioned in each vehicle on the assembly line. Plus, they take up room, have odors and cannot be easily customized on demand.

Common materials used to control

There's got to be a better way!



ACOUSTICRYL TM Liquid Applied Sound Damping Resins (LASD) ACOUSTICRYL™ Resins are waterborne, have low

VOC emission and can be formulated into coatings that can be spray applied using robots.

The process is:













And let's

not forget:

Free from APEO,

plasticizers

and PVC.

assembly area and in the car.

Up to 35% lighter (1)

for workers, reduce odor in the

They help reduce ergonomic injuries

lowered CO2 emissions.

Light weighting leads to

improved mileage and



38 million vehicles globally (2) What about electric vehicles? (EV)

for LASD technology is



This is equivalent to 275K vehicles off the road each year.

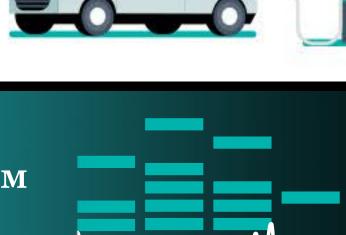
No engine - no noise problems, right? Actually... Not quite... while the EV powertrain is quieter than a combustion engine, it is not silent. Road and wind noise still cause unwanted sound and vibrations

developing new treatments to quiet the unique noise and vibrations of an electric motor, while keeping them lightweight and easily applicable. **ACOUSTICRYL**TM Noise and weight

that can now be heard prominently. These vibrations may be more extreme due to the

lightweight materials employed to reduce EV weight and maximize range. DOW is







reduction can

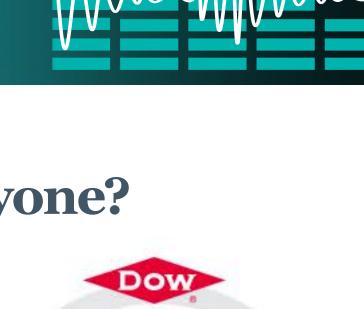
achieved using

be simultaneously

Is this a better outcome for everyone?

Sound Damping Resins

Liquid Applied



For Dow

Adding LASD noise reduction tech

nicely complements Dow's

Transition to a future with low it's an environmentally carbon mobility is one of the most For society For car owners superior alternative, important innovations happening at Enjoy the comfort of a quiet improving ergonomic Lower total carbon the moment in the auto industry.

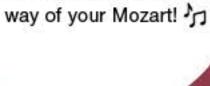
Walk or bike

plus it is good exercise!

increasing productivity and cost reduction due to one step spray process.

For auto makers

safety of the workers while



and more productive ride -

don't let anything get in the

emissions over the lifetime

of an automobile.

numerous automotive technologies that are being leveraged via the Mobility Science platform.

What can

you do?

Use mass transport when feasible and consider car-pooling.

Invest

is always best if you want to lessen your personal CO, footprint,

in fuel efficient cars that will save you money and lower CO₂ emissions.

Learn more

Check out the MobilityScience™ platform where you can find all about delivering transportation



vibration levels

innovation for a world on the move.

Watch the video