

# When it comes to flexibility ASPHALT PERFORMS

From 2 wheels to 18 wheels, asphalt pavements can be built to meet every project and community need. Its flexible design and specialty mixes scale to meet local traffic volumes and climate conditions while making use of locally available materials. In addition, asphalt is smooth and quick to construct, improving ride quality and fuel efficiency, while decreasing user delay. This flexibility means asphalt pavements offer cost-effective, versatile performance for today, tomorrow, and into the future.

FUTURE

4.5%

the percentage decrease in fuel consumption when driving on smoother pavements.<sup>1</sup> Asphalt's smoothness conserves resources for the future.



the number of states where you can find the aggregates that make up 95% of asphalt pavement.<sup>2</sup>

TOMORROW

3x FASTER

how quickly asphalt roads can be built and repaired, compared to other pavement materials, saving drivers time in traffic.<sup>3</sup>

8 hrs



how long warm-mix asphalt mixtures can be hauled without affecting compaction, supporting disaster zones for emergency and recovery efforts.<sup>4</sup>

7B GALLONS

the average amount of fuel Americans save annually by driving on smoother roads — the equivalent of taking more than 10 million vehicles off the road every year.<sup>5</sup>

6.7 INCHES PER HOUR

the amount of rainfall that is filtered off the road by using porous asphalt.<sup>6</sup>

TODAY



<sup>1</sup>Sime, M., S.C. Ashmore, & S. Alavi (2000). TechBrief: WeTrack Track Roughness, Fuel Consumption, and Maintenance Costs (FHWA-RD-00-052). Federal Highway Administration, McLean, Virginia.  
<sup>2</sup>USGS (2017). Oversight Hearing on the Importance of Domestically Sourced Raw Materials for Infrastructure Projects. U.S. Geological Survey, Department of the Interior, Washington, D.C.  
<sup>3</sup>LaMondia, J.J. (2016). User Safety and Delay Costs During Rehab Surfacing. Auburn University, Auburn, Alabama.  
<sup>4</sup>Howard, I.L., B.A. Payne, M. Bogue, S. Glusenkamp, G.L. Baumgardner, & J.M. Hensley Jr. (2012). Full Scale Testing of Hot-Mixed Warm-Compacted Asphalt for Emergency Paving (SERRE Report 70015-011). Oak Ridge National Laboratory, Oak Ridge, Tennessee.  
<sup>5</sup>APA (2017). Smoothness Matters. Asphalt Pavement Alliance, Lanham, Maryland.  
<sup>6</sup>Demposy, B., & D. Swischer (2003). Evaluation of Porous Pavement and Infiltration in Centre County, PA. World Water Congress 2003, Philadelphia, Pennsylvania: ASCE.



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