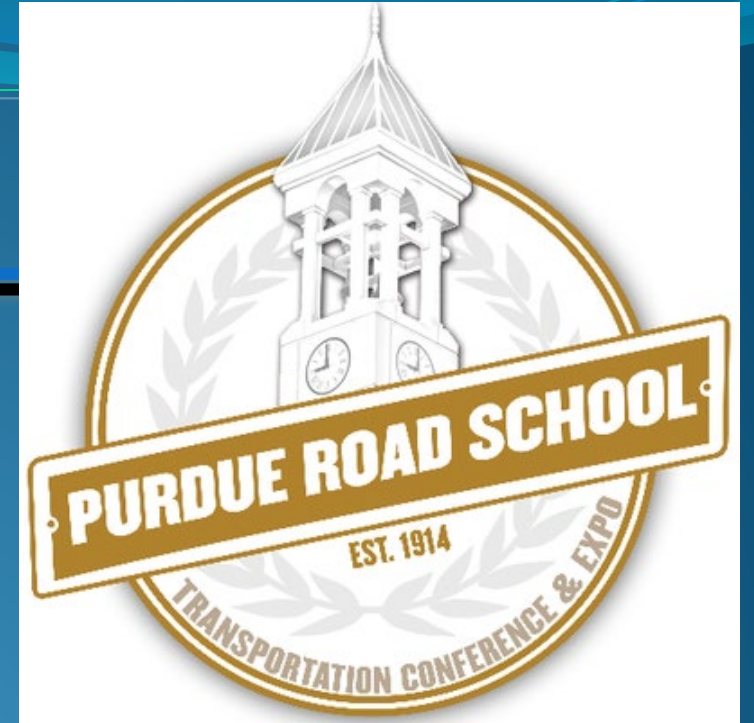


Superpave5

What is it?



Matt Beeson
Gerry Huber
February 13, 2020



Heritage Research Group



Why is it?



*That roads start off
looking like this?*



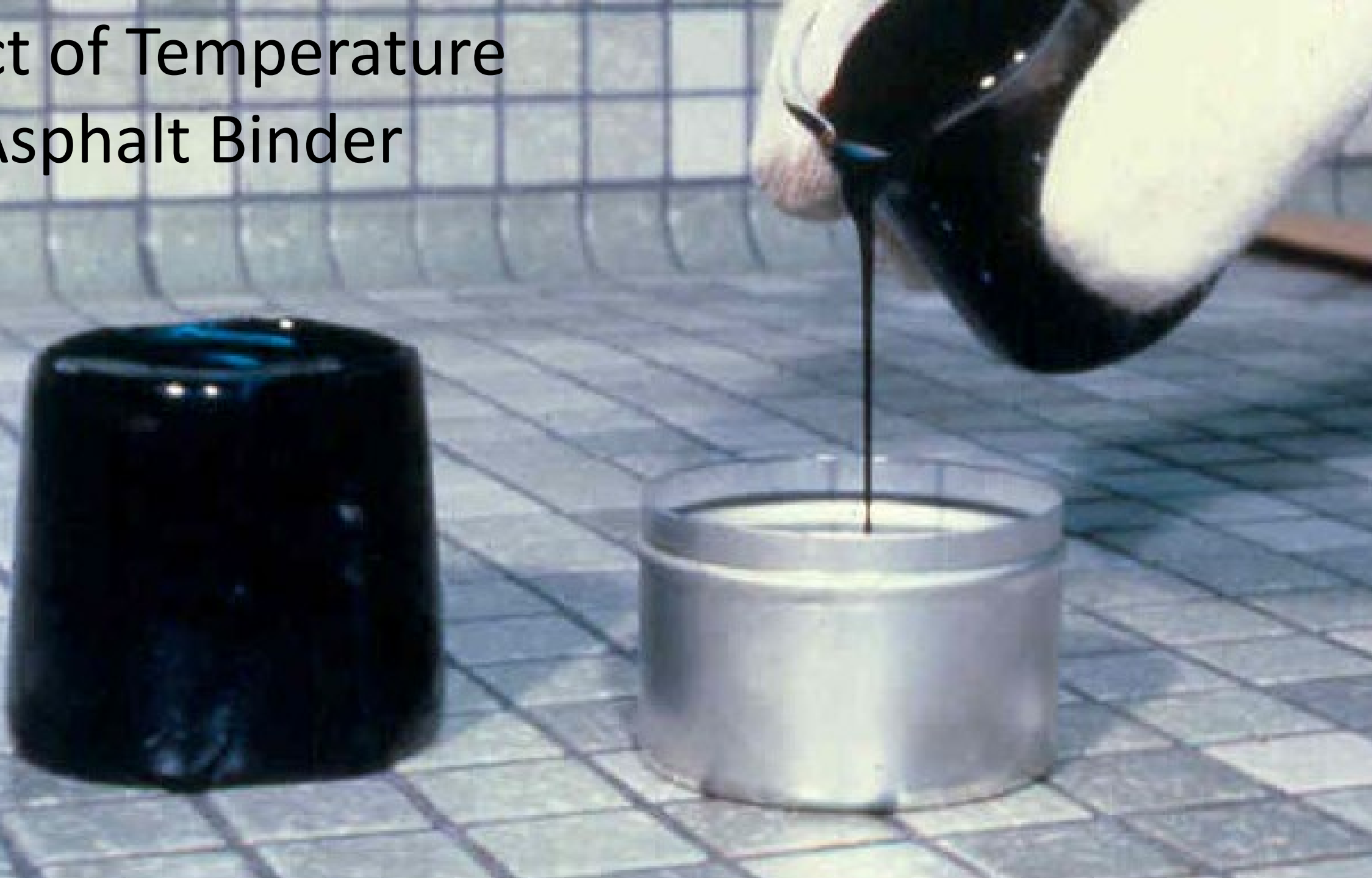
**And end up
looking like this**

First of All

***Let' Talk About
Asphalt***



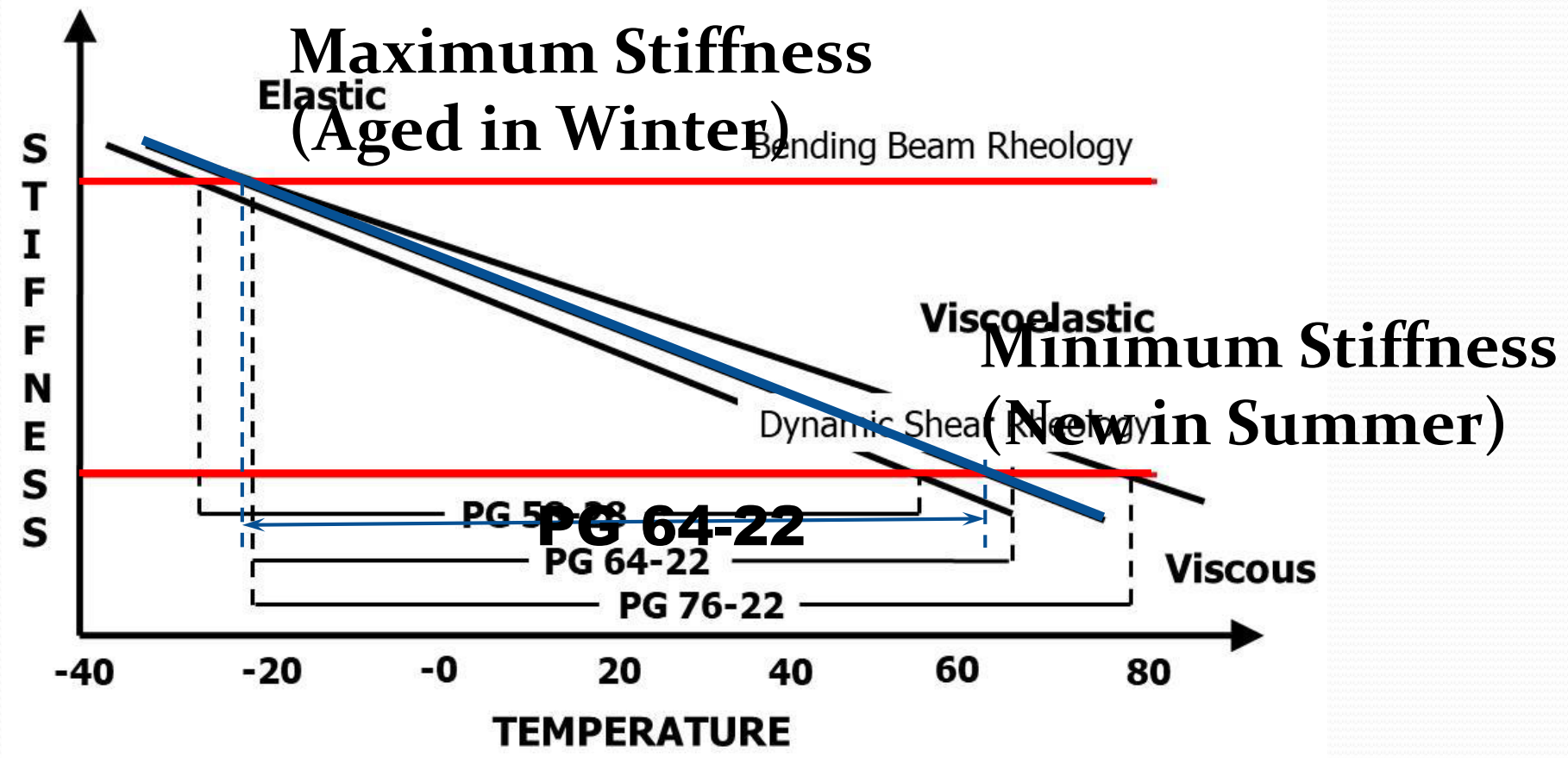
Effect of Temperature On Asphalt Binder



Manometers



Asphalt Grade Based on Climate



20050831



20050831



20050831





20050831



What causes asphalt to age?



20050831

A close-up photograph of a wooden leg from a piece of furniture, positioned on a dark, textured carpet. The leg is light-colored wood and is slightly out of focus. The carpet is dark and has a pebbled texture. A teal graphic overlay with wavy lines is at the top of the image. The number '20050831' is printed in teal on the left side.



Photo in May 2005

Interstate Pavement at End of Life



89% Density

95% Density

92% Density

Marshall (INDOT 1990s)

**Mix Design
6% air voids**



**Field Compaction
9-12% Air Voids**



Superpave (INDOT 401 spec)

Mix Design
4% air voids



Field Compaction
7-8% Air Voids



Superpave (INDOT 402 spec)

Mix Design
4% air voids



Field Compaction
9-11% Air Voids

