

# AMERICAN GILSONITE COMPANY

Building high-strength, high-performance roads that stand the test of time

**Gilsonite® is versatile, cost-effective and adds a new dimension of strength to asphalt.**

Gilsonite® uintaite is a naturally occurring hydrocarbon resin that adds tremendous strength, durability and longevity to asphalt roads. It is a cost-effective additive with unmatched performance.

## No other additive can match all the benefits of Gilsonite® uintaite:

- > High strength and fatigue resistance
- > Superior deformation resistance
- > Reduced pavement thickness
- > Reduced temperature susceptibility
- > Increased resistance to water stripping
- > Safe and environmentally responsible

## Gilsonite® is proven to perform

Gilsonite® uintaite's unique properties make a road that is less susceptible to high-temperature and deformation performance issues. Gilsonite® can be added directly at the hot mix plant without additional equipment.

## Use Gilsonite® as a cost-effective component of modified polymer

Modified polymer additives can increase binder performance under certain extreme conditions. However, SBS polymers cost more than twice as much as Gilsonite® uintaite. A more cost-effective solution is to combine Gilsonite® and SBS polymers to achieve the desired grade.

## Gilsonite® makes roads stronger to last longer

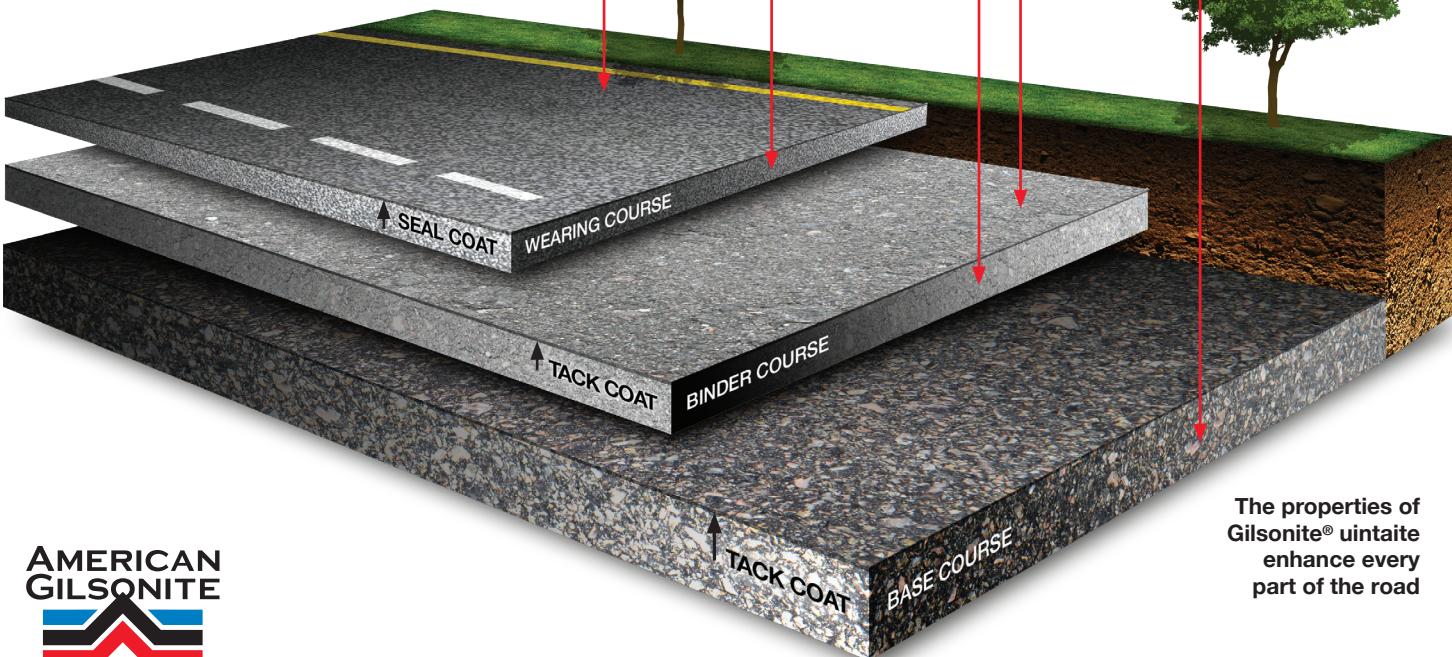
Compared to a typical road that might last 10 years, Gilsonite® uintaite produces a stronger, better-bonded asphalt that can last 25 years.

**Seal coat:**  
 > Pavement rejuvenation  
 > Anti-aging  
 > Bonding

**Wearing course:**  
 > Bonding  
 > Anti-aging  
 > Rutting resistance

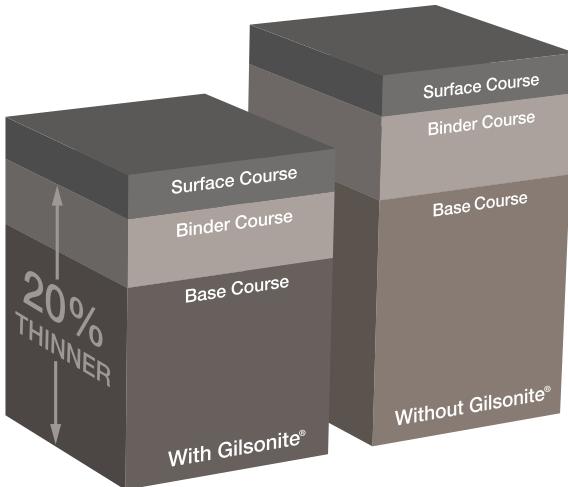
**Binder course:**  
 > Rutting resistance  
 > Reduced thickness

**Base course:**  
 > Rutting resistance  
 > High modulus  
 > Reduced thickness



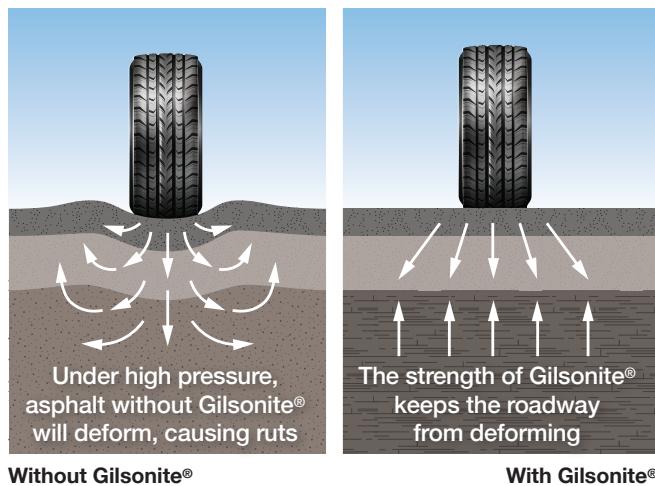
## Gilsonite® reduces material and saves money

The high modulus provided by Gilsonite® uintaite allows the base and binder courses to be up to 20% thinner and still provide the same level of performance. Using less material results in reduced cost.



## Asphalt with Gilsonite® resists rutting

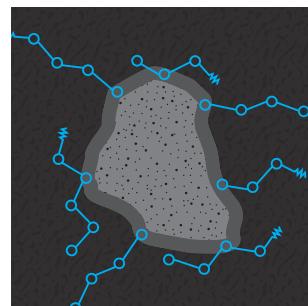
Gilsonite® uintaite increases the viscosity of asphalt so roadways resist deformation and fatigue, even under temperature extremes – unlike other modifications or high modulus asphalts based on RAP.



## Gilsonite® is superior for recycling asphalt

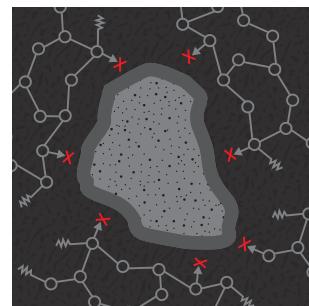
Only Gilsonite®-modified binder bonds with and stabilizes recycled binder, making recycled asphalt as strong and durable as new. By contrast, polymer-modified binders form large molecules that cross-link into a matrix that recycled binder cannot bond with, leaving pavement vulnerable to breakdown.

### Recycled with Gilsonite®



Gilsonite®-modified binder diffuses into the RAP binder, modifying it as well.

### Recycled without Gilsonite®



Binder modified with cross-linked polymer cannot diffuse, leaving the RAP binder unmodified.

In addition, the unique properties of Gilsonite® uintaite allow more recycled material to be added to the hot mix, reducing the amount of new aggregate needed.

## Gilsonite® outperforms other bitumen modifiers

- Unique source with high purity deposits
- Extracted with little contamination
- Ideal softening point for bitumen modification
- Natural antioxidant properties resist age-hardening and degradation

## Building stronger roads for more than 100 years

Gilsonite® is the trademarked name for uintaite, a natural asphalt discovered in the Uinta Basin of northeastern Utah. Since the 1860s, American Gilsonite Company has been producing Gilsonite® uintaite to strengthen asphalt roads.

Gilsonite® is readily available in meltable bags, bulk bags and bulk trucks.

## Gilsonite® is naturally better®