

# AMERICAN GILSONITE COMPANY

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

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

American Gilsonite® uintaite is a naturally occurring hydrocarbon rock 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

## All-natural Gilsonite® is safe and exempt from REACH regulations

Naturally occurring Gilsonite® uintaite has tremendous health and environmental advantages over synthetic products or oxidized asphalt, which is carcinogenic. Gilsonite® is:

- > Non-toxic
- > Non-carcinogenic
- > Non-mutagenic
- > Sulphur-free

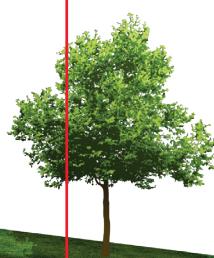
No extreme safety measures are necessary when handling Gilsonite®. It is even approved for use as a coating on surfaces that contact food.

## 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



### **Binder course:**

- > Rutting resistance
- > Reduced thickness

### **Wearing course:**

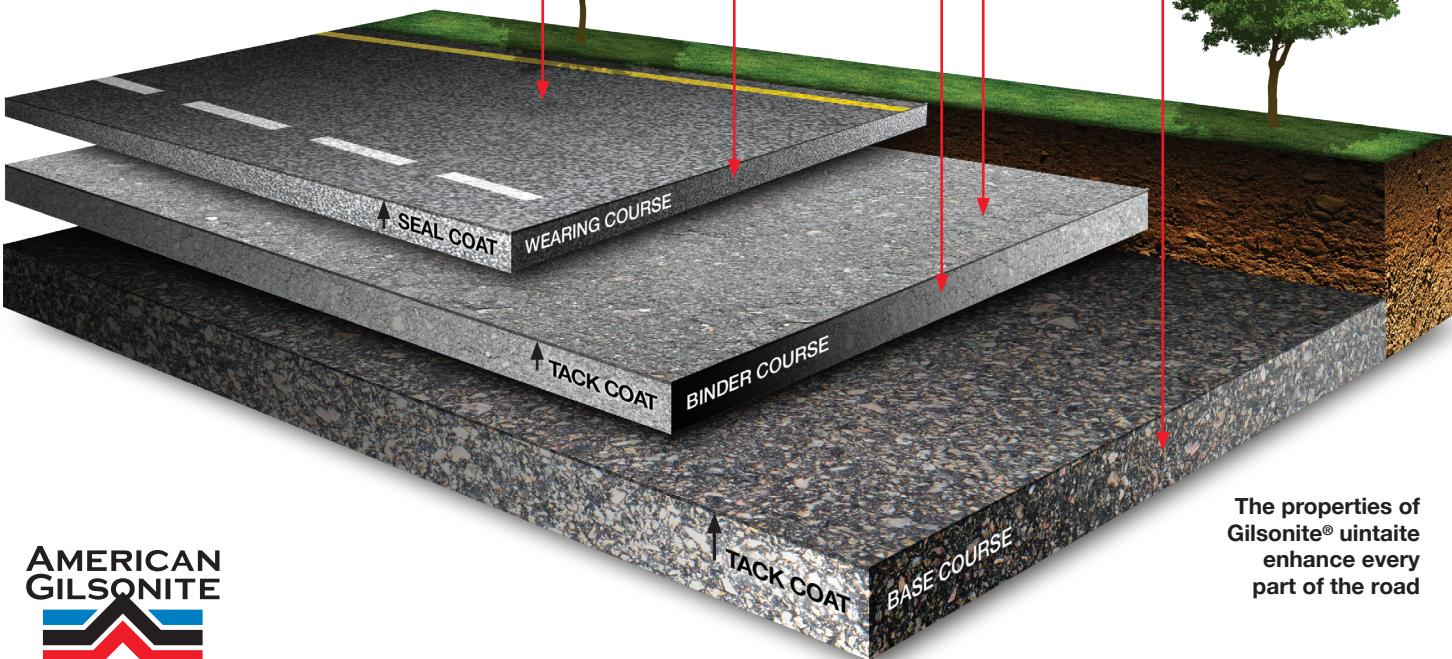
- > Bonding
- > Anti-aging
- > Rutting resistance

### **Base course:**

- > Rutting resistance
- > High modulus
- > Reduced thickness

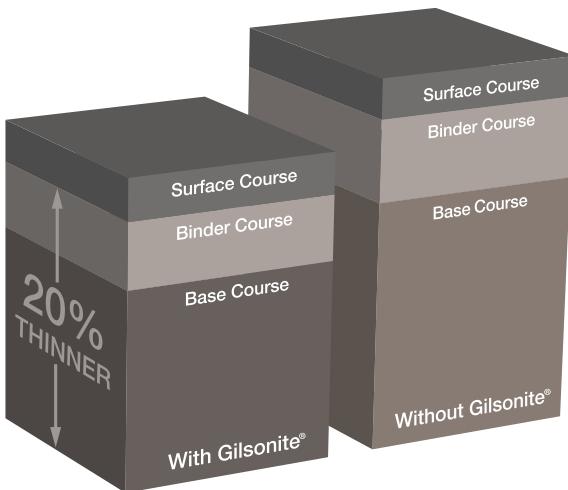
### **Tack coat:**

- > Bonding



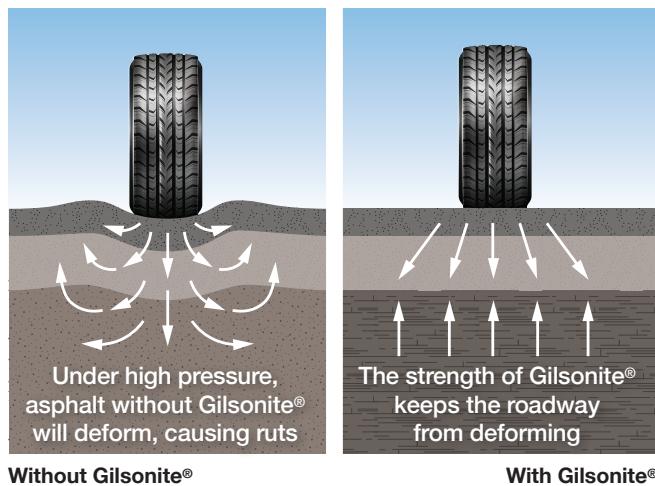
## Gilsonite® reduces material and saves money

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

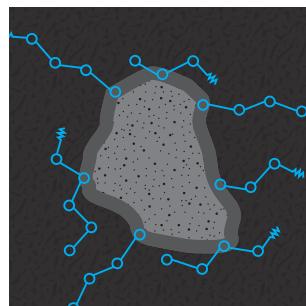
Gilsonite® uintaite increases the viscosity of asphalt so roadways resist deformation and fatigue, even under temperature extremes – unlike other modifications or high modulus asphalts based on RAP.



## Gilsonite® is superior for recycling asphalt

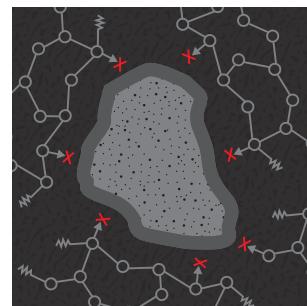
Only Gilsonite®-modified binder bonds with and stabilizes recycled binder, making recycled asphalt as strong and durable as new. By contrast, polymer-modified binders form large molecules that cross-link into a matrix that recycled binder cannot bond with, leaving pavement vulnerable to breakdown.

### 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®