

AMERICAN GILSONITE

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 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:

- > 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

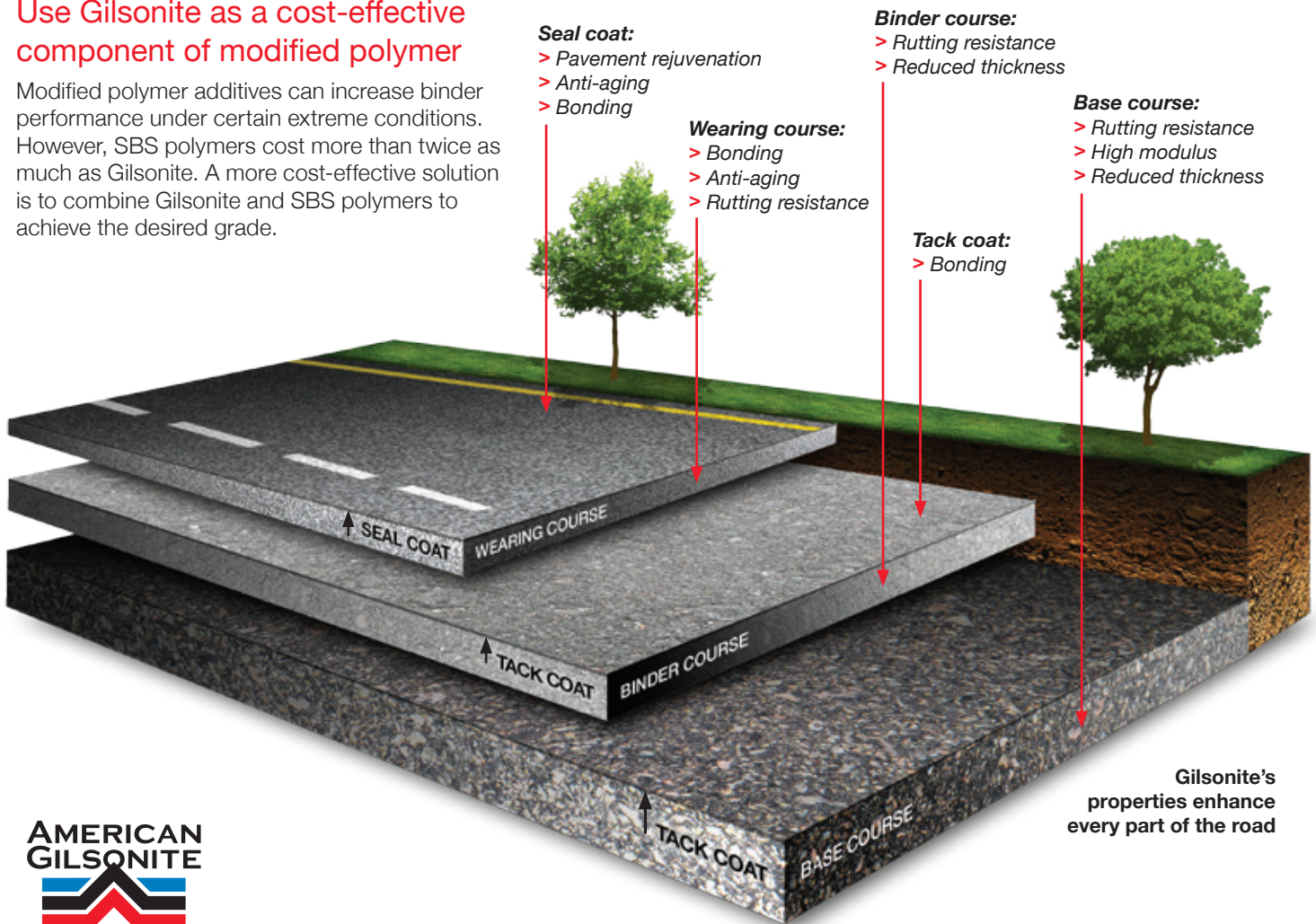
Gilsonite's unique properties make a road that is less susceptible to high-temperature and deformation performance issues. Gilsonite can be added directly at the hot mix plant without additional equipment.

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. A more cost-effective solution is to combine Gilsonite and SBS polymers to achieve the desired grade.

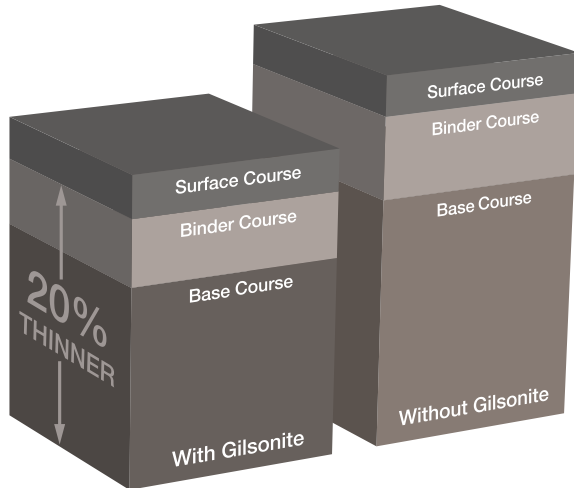
Gilsonite makes roads stronger to last longer

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



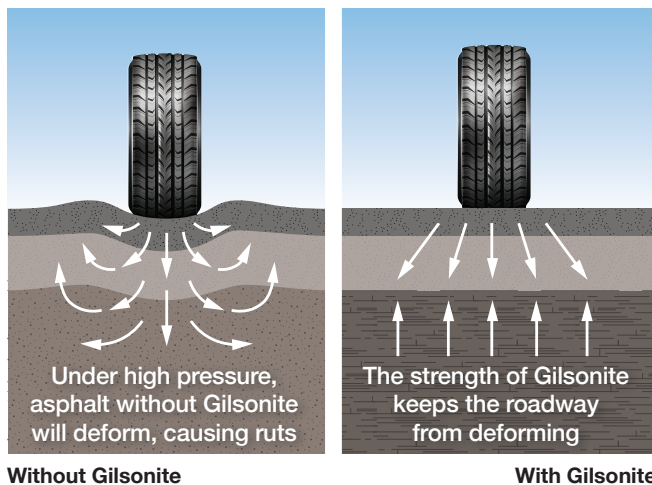
Gilsonite reduces material and saves money

The high modulus provided by Gilsonite 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 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.



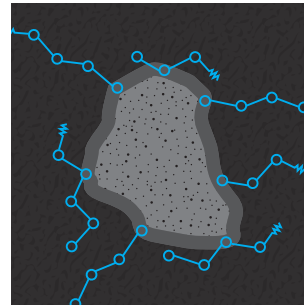
Without Gilsonite

With Gilsonite

Gilsonite is superior for recycling asphalt

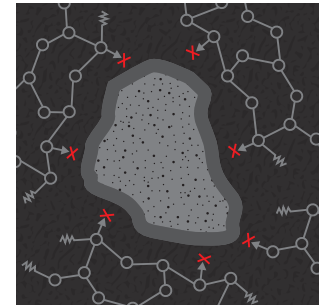
Only Gilsonite-modified binder bonds with and stabilizes recycled binder, making recycled asphalt as strong and durable as new. By contrast, polymer-modified binders form large molecules that cross-link into a matrix that recycled binder cannot bond with, leaving pavement vulnerable to breakdown.

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 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 antioxidation properties resist age-hardening and degradation

Building stronger roads for more than 100 years

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

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

Gilsonite is naturally better®