

# AMERICAN GILSONITE COMPANY

Gilsonite® uintaite delivers lower project cost while improving workers' health and safety



## Project Details

Location	Southeast Germany
Contractor	Strabag International
Product	Gilsonite® HMA Modifier
Application	Mastic Asphalt

## New German worker safety requirements present a challenge for road paving

German law requires a significant reduction in MAK values (carcinogenic substances in asphalt fumes per m<sup>3</sup>) by 2024. This presented a challenge when the second largest autobahn in Germany needed renovating. The surface course required a mastic asphalt strong enough to withstand heavy car and truck traffic. Historically, Trinidad Lake Asphalt (TLA) has been the primary additive for mastic asphalt, however the contractor was unable to achieve the MAK health and safety requirements with TLA.

## Gilsonite® HMA Modifier is put to the test versus TLA

One section of the road was paved using TLA while a different section was paved using Gilsonite® HMA Modifier, a safe, naturally occurring hydrocarbon resin. Gilsonite® uintaite is non-toxic, non-carcinogenic and non-mutagenic. The proven performance and economic advantages of Gilsonite® HMA Modifier make it an ideal alternative to address the challenge of reducing pollution in asphalt paving without increasing costs.

## Gilsonite® HMA Modifier delivers worker safety, reduces project costs and improves deformation performance

- > Gilsonite® uintaite has a lower high-temperature viscosity which facilitated **reduced hot mix temperatures**
- > Lower water content, fewer volatile materials and lower mix temperatures enabled Gilsonite® to produce **significantly less fumes**
- > Gilsonite® provided an average **50% reduction** in carcinogenic MAK values compared to TLA
- > The lower sulfur content of Gilsonite® resulted in a **more pleasant work environment**
- > Gilsonite® delivered **better deformation resistance** than TLA, with a penetration depth of 1.4 mm after 30 minutes at 40°C compared to 1.9 mm for TLA
- > Required 80% less Gilsonite®, **reducing project costs by 10%**



There's only one source of Gilsonite®. **Gilsonite® uintaite is naturally better.**

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Gilsonite® is a registered trademark of American Gilsonite Company for the mineral uintaite found only in the Uinta basin.