



Gee
ASPHALT
SYSTEMS,
INC.

Asphalt Preservation Program



GSB Performs on Mall Pavements!

GSB-78 Sealer Binder

Asphalt Preservation

**Asphalt Preservation means
fixing it *before* it breaks!**

Environmental susceptibility is the problem...

Each day new ways are found to extract and separate new chemicals from petroleum. Products derived from petroleum such as polymers, anti-oxidants, ultraviolet & infrared inhibitors and powerful epoxy cements to name just a few give hint to why asphalt pavements are not what they used to be. Left over oils used for making asphalt pavements are then fortified and designed to meet necessary physical properties, then perform in a reduced capacity when exposed to effects of the environment. As a result modern refined asphalts are in a state of declining performance. In truth this is an economic issue where the industry manufacturers sell these chemicals for more money than asphalt binders. The problem is likely to get worse before it gets better.

- **What is the Solution? GSB & Gilsonite!**

Gilsonite is non-toxic, naturally occurring, 99.85% pure mineral asphalt ore. Gilsonite has not had chemicals vital to long term performance removed. Nor has Gilsonite been subjected to the cracking process typical of all HMA (hot mix asphalt) binders. Gilsonite is high in resin and nitrogen content and proves to be an extremely powerful and durable binder. When dissolved and combined with plastisizers, polymers, and diluents, Gilsonite becomes the base stock for Sealer Binder products like GSB-78 and GSB-88. What does this mean? GSB products are premium grade preservation treatments that are highly resistant to the detrimental effects caused by exposure to the environment. GSB products consistently out perform refined asphalt and coal tar products in laboratory and field research by as much as 12:1 ratio, as confirmed by the Army Corps of Engineers studies (ask about copies of research data).

- **GSB-78 Sealer Binder is Gilsonite Base & Asphalt compatible...**

GSB-78 incorporates Gilsonite, and is a petroleum base product. GSB products are asphalt compatible in every way. GSB penetrates and becomes part of the surface of asphalt, sealing and binding aggregates tightly together (like penetrating processes used to stain wood). This characteristic causes GSB to be in the forefront of high performance surface treatments for streets, roadway and highways, airports, and commercial pavements nationwide. GSB performance is not tied to volume of traffic or wear. GSB will also mend chip and slurry seals that exhibit raveling or de-bonding. GSB products require simple preparations and minimal down time. Frequently treated streets are opened in just a couple of hours.

- **Enhanced benefits and reduced costs!**

As a sealer, binder, & rejuvenator, **GSB** fills micro-voids in the asphalt surface. GSB will halt, and in some cases reverse effects of aging and degradation from water penetration, oxidation, and UV radiation. As a rejuvenator and preservative, GSB restores and maintains the elasticity and integrity of the asphalt binders in your pavement. GSB can lower viscosity by over 30%, and increase marshal

PRESERVATION for SHOPPING CENTER PAVEMENTS



GSB-78 Sealer Binder



stability by almost 40% (shows strength of binder) after just five years. HMA pavements perform poorly when they become hard (like cement), therefore it is imperative to keep binders soft, pliable and flexible in the quest toward perpetual pavements. Your pavement surface will be friction tested, and the correct type and amount of micro friction agent applied to assure optimum traction properties and public safety. Clean up is not necessary!

When?

Because all asphalt binders oxidize very quickly, preservation needs to begin sooner rather than later. According to FHWA studies, preservation treatments should be applied early, even within the first years to preserve original oils and elasticity within the pavement. Preservation benefits can be obtained whenever applied to a structurally sound pavement.

Cost Effective!

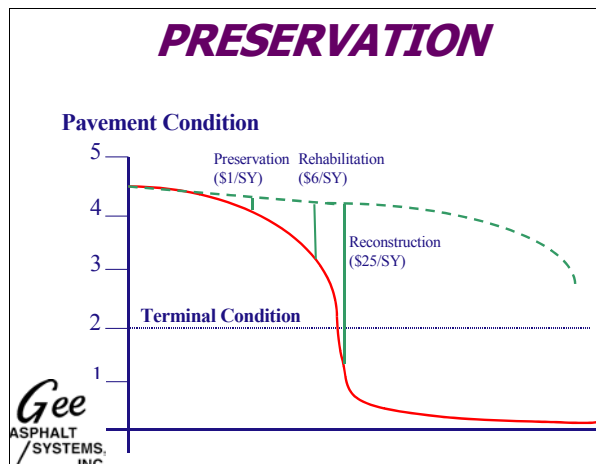
Gilsonite applications are cost effective. Recent FHWA, MDOT, AzDOT research shows cost reductions for agencies up to 60% compared to using the worst first practices. We'll help you survey and inventory your pavements then develop a plan that will work on your pavements, and within your budget! Call now and we will help you establish your own preservation strategy.

For More Information call:

The Asphalt Preservation Specialists



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"We know from our data that for every dollar we spend on preservation we get close to a 10 to 1 return on our investment. (Jim Sorenson, Director Pavement Preservation, FHWA)