
**SAVING
OUR ROADS**

AsPen[®] Surface Sealer for Roads

The Eco-Friendly Rejuvenator and Surface Sealer
for Protecting, Preserving and Beautifying Roads



sealmaster.net

(800) 395-7325

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Bituminous Surface Treatments are an integral part of an effective pavement preservation program



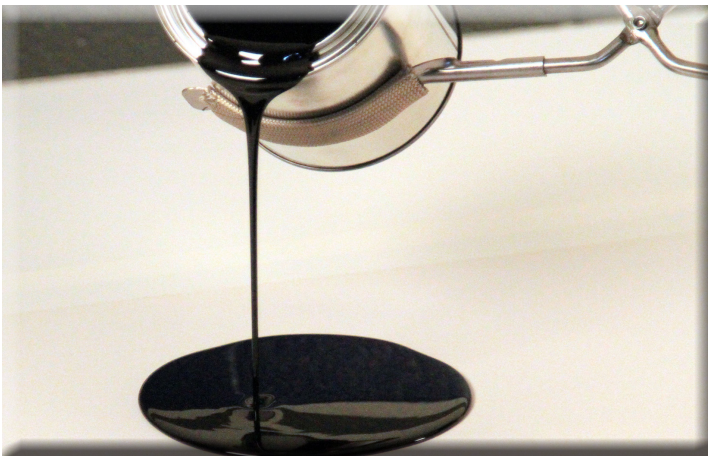
Right side shows application of AsPen® Surface Sealer

“Pavement Preservation” is a cost - effective set of practices that extend pavement life and improve safety and motorist satisfaction while saving public tax dollars.

What is Asphalt Pavement?



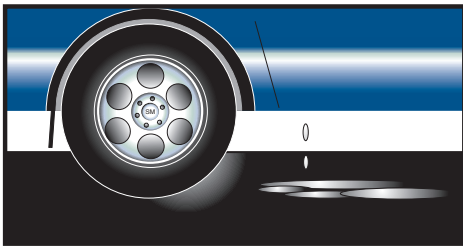
Asphalt Pavement, also known as Hot Mix, is a simple blend of two main components; molten liquid asphalt (the black glue or binder), and crushed rock or aggregate.



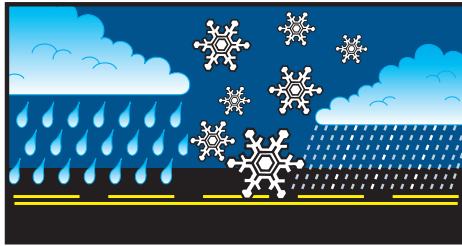
The Hot Mix is then placed and compacted to form asphalt pavement.



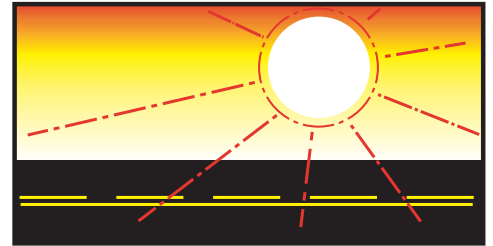
Why Does Asphalt Pavement Deteriorate?



Chemical Damage



Moisture Damage



UV & Oxidation Damage

Left untreated, asphalt pavement will deteriorate rapidly. The asphalt binder (glue) that holds the pavement together begins to oxidize and weather soon after installation. Moisture penetrates the asphalt, causing damage and deterioration to the pavement. Oil, gas and salt cause further damage to the pavement surface. All of this environmental distress is why asphalt goes from a newly laid fresh black appearance to a drab, aged, oxidized gray appearance.

AsPen® is a Proven Surface Sealer for Roads, Streets and Other Pavement Surfaces

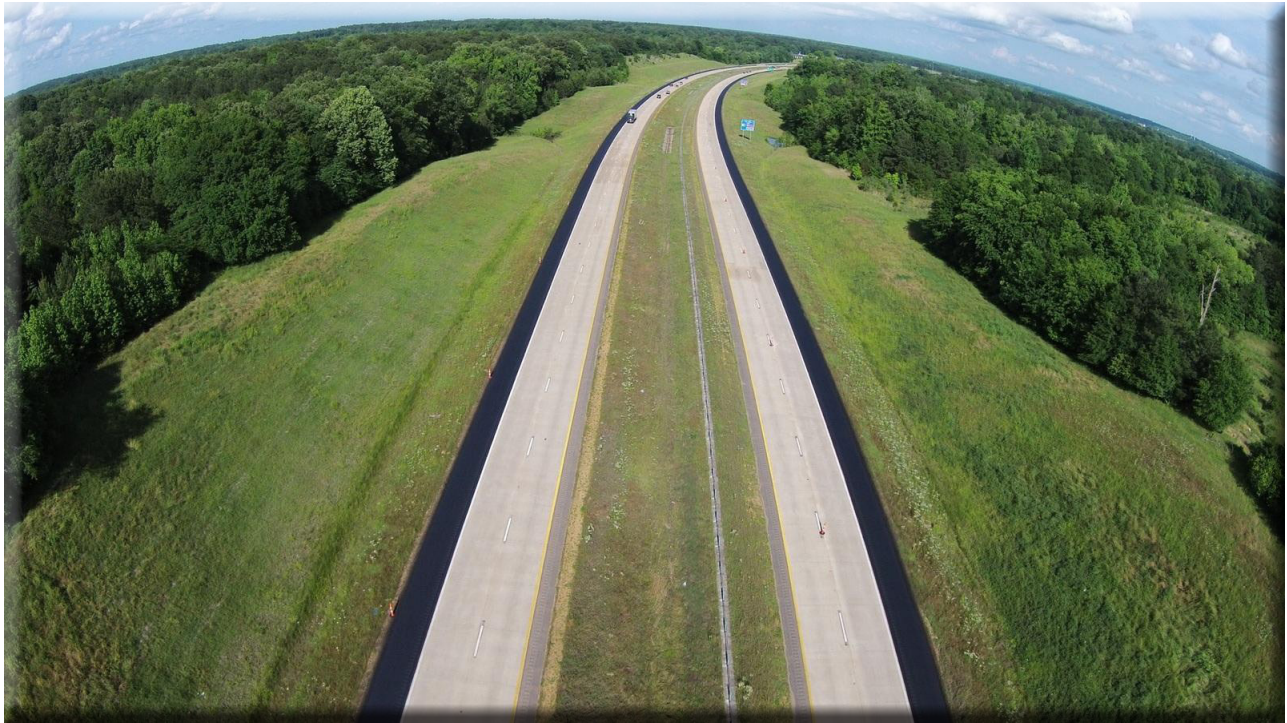


AsPen is an Eco-Friendly asphalt based emulsion pavement rejuvenator and surface sealer that provides a cost-effective solution for Pavement Preservation and Beautification of asphalt pavement roads

Recommended uses for AsPen:

- Low Traffic Roads and Streets
- Homeowner Associations and Gated Communities
- County roads
- Airport Taxiways
- Highway Shoulders
- Neighborhood and Cul-de-sac roads

AsPen® is a Proven Cost-Effective Solution for Protecting and Preserving Highway Shoulders



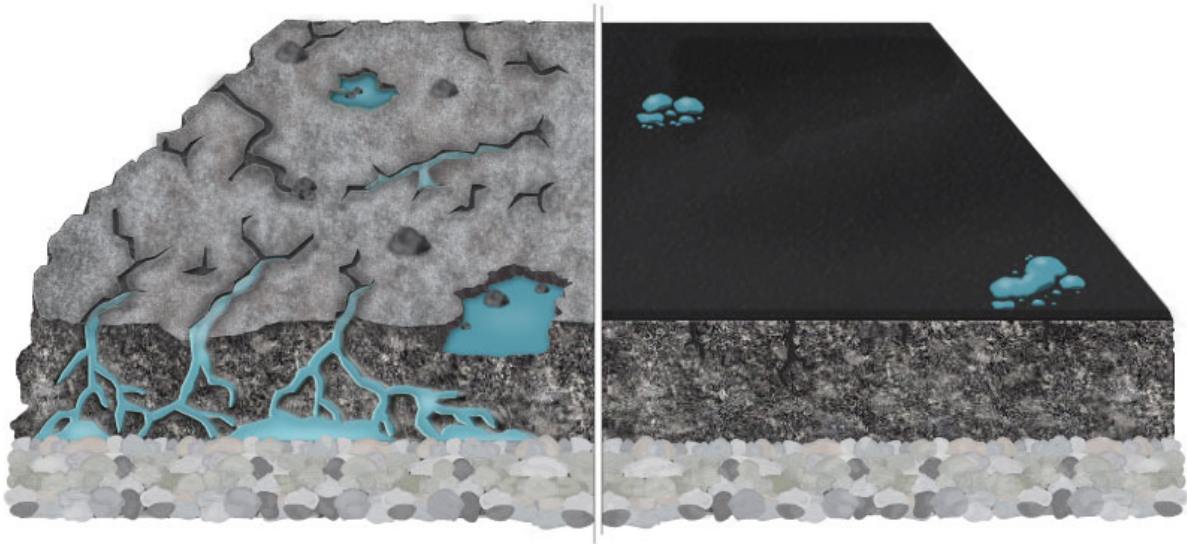
Asphalt highway shoulders are particularly subject to oxidation and weathering due to low traffic flow on the shoulder sections of highways. AsPen provides an ideal, cost-effective, long-term solution for protecting and preserving highway shoulders.

Advantages of AsPen on Highway Shoulders:

- Cost-effective, long-term solution for preserving, protecting and beautifying asphalt highway shoulders
- Protects against oxidation and moisture damage
- Rich, black color provides a like-new appearance to aged and oxidized asphalt shoulder.
- Black finish melts snow and ice significantly faster than untreated surfaces
- Fast-drying one-coat application with minimal traffic flow interruption
- Environmentally-friendly water-based technology

AsPen® Bituminous Surface Sealer Protects, Preserves and Beautifies Asphalt Roads

Unsealed vs. Sealed



AsPen is designed to penetrate, water proof, and replenish the asphalt pavement binder that is lost through oxidation and weathering. AsPen provides a barrier to moisture intrusion, as well as, ultraviolet rays, chemicals and salt.

AsPen[®] Provides a Barrier Against the Damaging Effects of Moisture Intrusion Into Asphalt Pavement

Untreated asphalt results in moisture intrusion into pavement

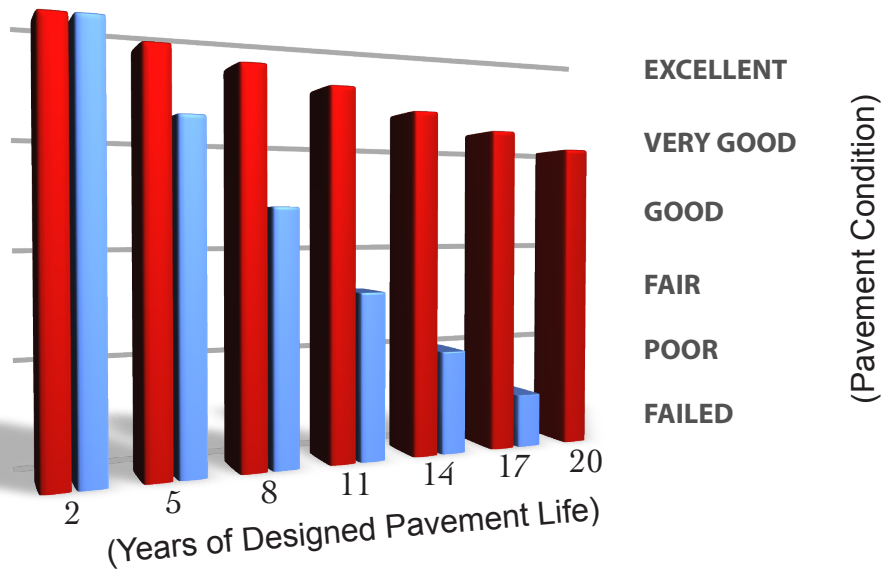
Asphalt treated with AsPen sheds water



AsPen provides over 95% protection from moisture intrusion into pavement. AsPen sheds water for superior pavement protection.

A Scheduled Pavement Preservation Program that Includes Crack Sealing and AsPen® will Greatly Increase Pavement Service Life

■ AsPen and Crack Sealing ■ No Scheduled Maintenance



AsPen® Features a Fast, Efficient One Coat Application Process with Minimal Impact on Traffic Flow



AsPen is a single coat application sealer that penetrates into the existing pavement profile to maintain vehicle traction. AsPen does not require sanding after application.



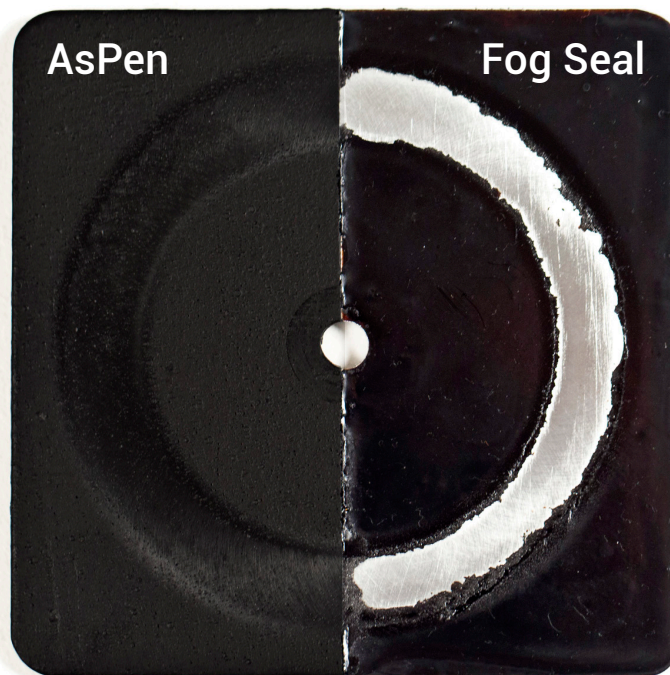
AsPen[®] vs. Conventional Fog Seals

For decades, Highway Departments, Municipal Street Departments and County and Road Departments have applied standard asphalt emulsion fog seals to help extend pavement life.

Standard fog seals are performed with chemical asphalt emulsions (SS1h or CSS1h). These asphalt emulsions are primarily designed for use as tack coats underneath hot mix asphalt paving and overlays. The chemical asphalt emulsions that are typically used for standard fog sealing were never designed to withstand the rigors of direct vehicle traffic.

AsPen is formulated with specialized mineral reinforced petroleum based resins that are specifically designed to withstand and hold up to the rigors of direct vehicle traffic. AsPen was specifically formulated as a pavement surface sealer and rejuvenator for asphalt pavement roads.

Wet Track Abrasion Test



AsPen significantly outperforms Standard Fog Seal as the above Wet Track Abrasion Test clearly indicates

Applying AsPen[®] over Chip Seal



Applying AsPen over freshly applied Chip Seal provides many advantages including:

- Locking down aggregate to minimize chip loss
- Prevents loose stones from causing windshield and paint damage to automobiles
- Significantly increases the life of a chip seal application
- Melts snow and ice faster- A black colored surface creates a higher road surface temperature accelerating the melting of ice and snow
- Enhances visibility of traffic paints and lane markings

Applying AsPen® over Aged and Oxidized Slurry Seal Treatments



Applying AsPen over aged oxidized Slurry Seal provides many advantages including:

- Renews surface of existing slurry seal- significantly extending service life of the slurry seal surface treatment
- Fills and seals hairline surface cracks
- Melts snow and ice faster- A black colored surface creates a higher road surface temperature
- Enhances visibility of traffic paints and lane markings
- Saves taxpayer dollars by prolonging the life of existing bituminous surface treatments

AsPen[®] Advantages and Benefits



AsPen provides a very economical approach and solution for pavement preservation, saving precious taxpayer dollars and freeing up additional funds for more projects.



AsPen replenishes the valuable asphalt binder or "glue" that is lost through weathering, aging, traffic wear and other forms of environmental distress.



AsPen provides a deep rich "like new" black appearance to roads.



AsPen enhances Traffic Marking visibility for added driver safety. The dark color of AsPen enhances and highlights the visibility of yellow and white traffic markings.

AsPen® Advantages and Benefits Cont.'



The deep black color of AsPen melts snow and ice significantly faster than untreated pavement.



AsPen produces an even textured surface with no loose stones, making it ideal for vehicle, bicycle and pedestrian traffic.



Fast, efficient one coat application process with minimal impact on traffic flow. AsPen typically dries in 1 to 2 hours.

Additional AsPen Advantages

- Taxpayers appreciate the “like new” appearance of the pavement.
- Reduces asphalt pavement binder aging, oxidation and hardening.
- Prevents raveling of aged pavements. “Locks in” the fines within the paving mix.
- Does not require sanding after application. AsPen maintains the existing profile of the pavement for traction.

The SealMaster® Advantage

The Smart Choice for Pavement Preservation



For over 40 years, property owners and government agencies have turned to SealMaster for pavement maintenance and preservation solutions. Industry leading surfacing and crack sealing technologies continue to keep SealMaster at the forefront of pavement preservation.

A Nationally Recognized Brand



Our nationwide product manufacturing and distribution facilities allow us to serve thousands of property owners, pavement professionals, townships, counties and municipalities year after year from coast to coast.

Professional Service



SealMaster has the industry's largest network of professionally trained pavement maintenance contractors to assure successful results at competitive prices. Our network of highly trained and experienced professionals are available to provide on-site project recommendations as well as full application services to assure quality results on every project.