
**SAVING
OUR ROADS**

**Liquid Road[®]
Surface Treatment**

The Economical and Effective Approach to
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



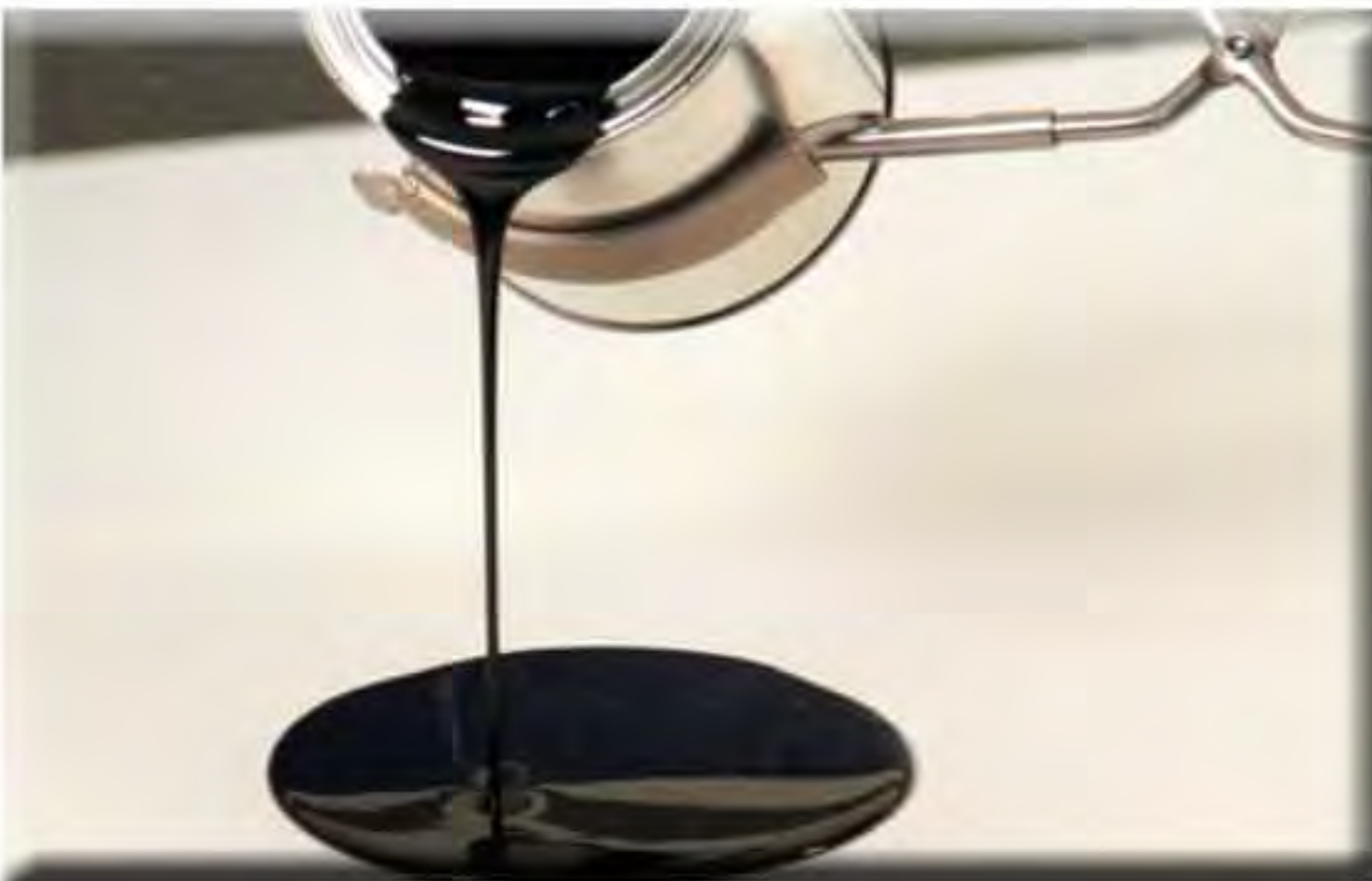
Left side shows application of Liquid Road® Bituminous Surface Treatment

"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.



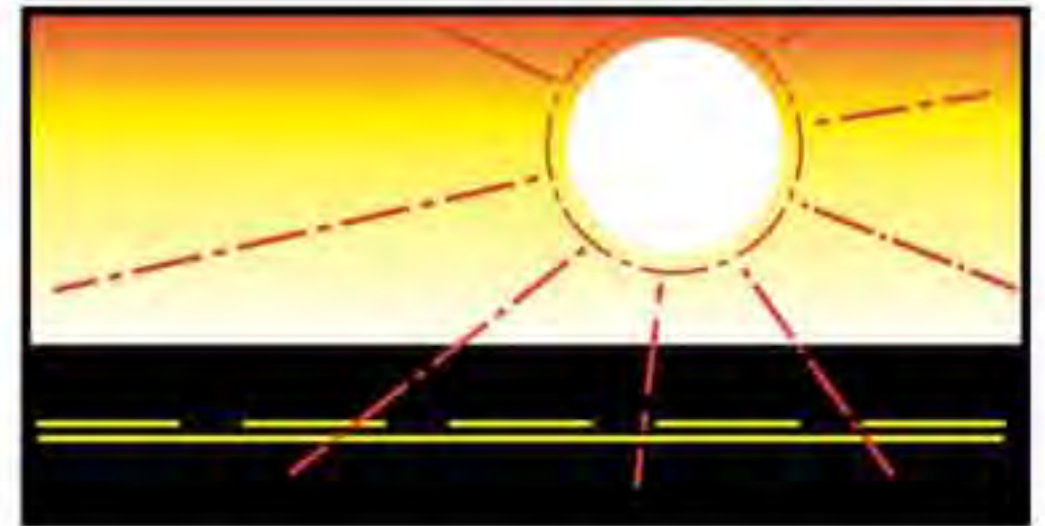
Why Does Asphalt Pavement Deteriorate?



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.

Liquid Road® is a Proven Coating System for Roads, Streets and Other Pavement Surfaces



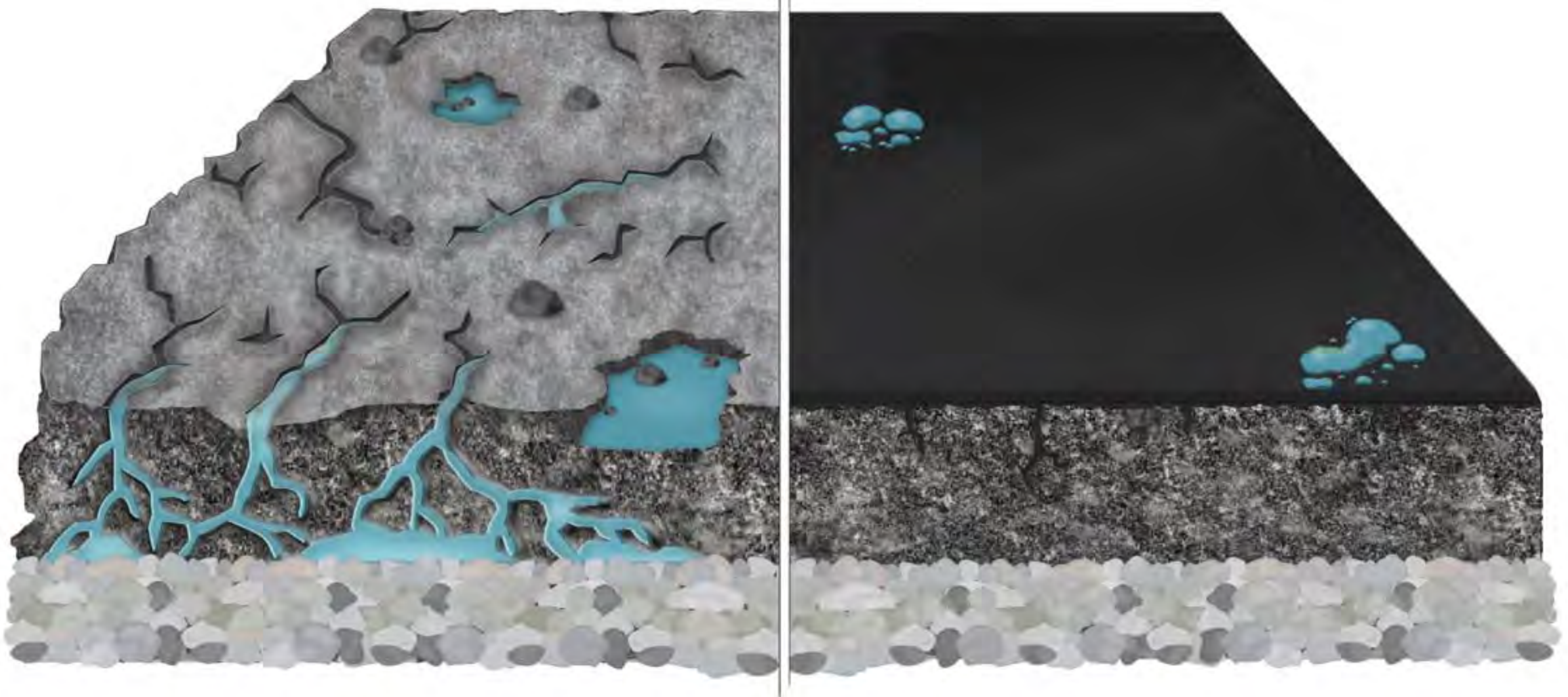
Liquid Road is a polymer-modified, fiber reinforced asphalt emulsion surface treatment fortified with specifically graded aggregate for slip-resistance and durability.

Recommended uses for Liquid Road:

- Low traffic roads and streets
- Home Owner Associations
- Highway shoulders
- Airport Taxi Ways
- Parking lots and other pavement surfaces

Liquid Road® Bituminous Surface Treatment Protects, Preserves and Beautifies Asphalt Roads

Untreated vs. Treated



Liquid Road replenishes the binder that is lost through weathering and aging and provides a barrier to moisture intrusion, as well as, ultraviolet rays, chemicals and salt.

Liquid Road® Provides a Barrier Against the Damaging Effects of Moisture Intrusion Into Pavement

Asphalt treated with Liquid Road sheds water

Untreated asphalt results in moisture intrusion into pavement



Liquid Road Provides up to 95% protection from moisture intrusion into pavement. Liquid Road Surface Treatment sheds water for superior protection.

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

■ Liquid Road/Crack Sealing ■ No Scheduled Maintenance



Liquid Road® vs. Conventional Sand Seals

For decades, Highway and street departments have turned to conventional sand seals for use as a road surface treatment to extend pavement life. Sand seals consist of an application of asphalt emulsion followed by a layer of loose sand.

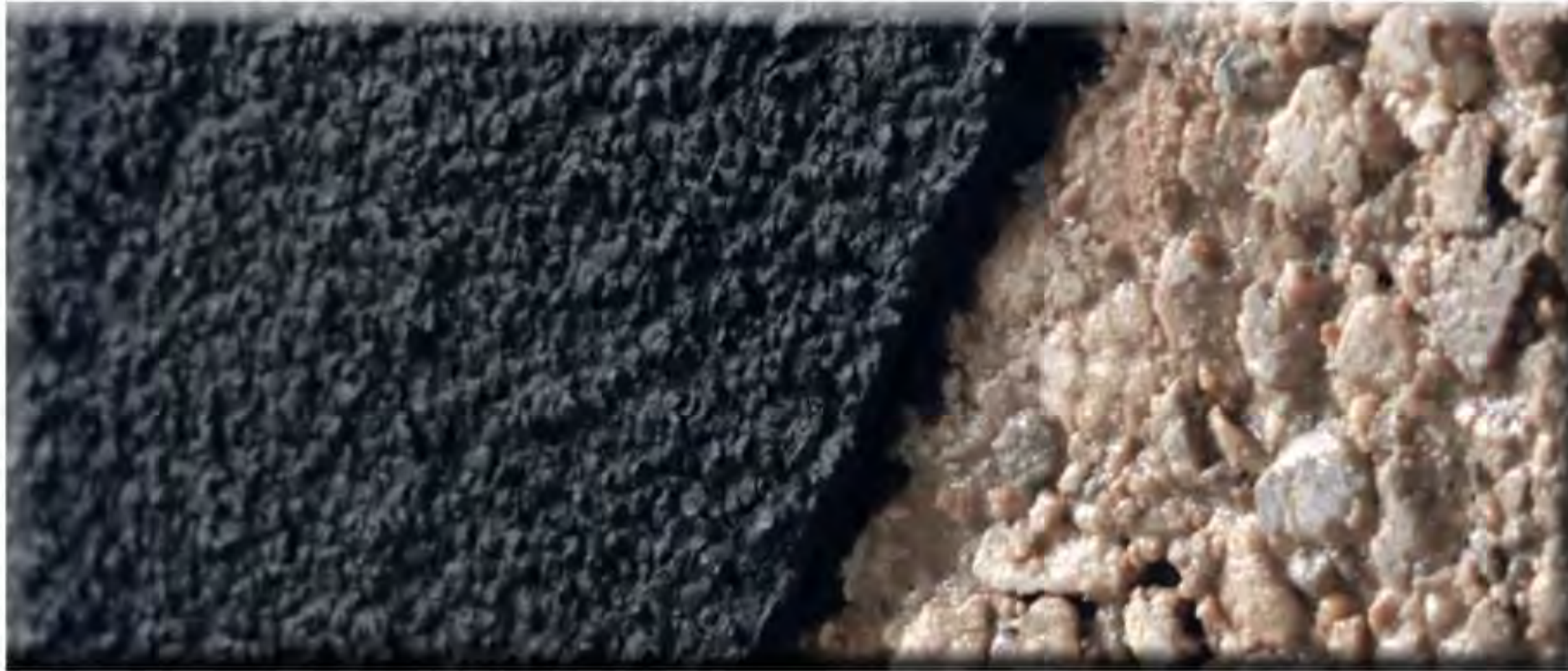
Liquid Road provides a far superior product to conventional sand seals. With Liquid Road, the sand is fully encapsulated as the material is applied resulting in a much cleaner, safer, more cost effective and longer lasting surface treatment.



Wet Track Abrasion Test

Liquid Road significantly outperforms sand seal as the wet track abrasion test (at left) indicates.

Liquid Road® Maintains Traction of Existing Roads for Continued Motorist Safety



Liquid Road contains specifically graded aggregate to ensure an adequate anti-skid surface texture to help ensure motorist safety.

Locked Wheel Skid Testing of Liquid Road



When utilizing a DOT approved Locked Wheel Skid Tester apparatus, Liquid Road maintains skid ratings that are consistently between 34 and 36, assuring adequate anti-skid properties for motorists.

Liquid Road® Advantages and Benefits



Liquid Road® provides an economical approach to pavement preservation saving precious tax-payer dollars and freeing up additional funds for more projects.



Liquid Road is a tough, durable aggregate-filled bituminous surface treatment that provides skid-resistance and lasting pavement protection.



Liquid Road provides a deep, rich "like new" black appearance to road surfaces. Tax-payers can see and appreciate their tax dollars at work and take pride in the look of their roads.



The deep black color of Liquid Road melts snow and ice significantly faster than untreated road surfaces, resulting in increased motorist safety in colder climates.

Liquid Road® Advantages and Benefits Cont.'



Liquid Road produces an even textured surface with no loose stones or rough surfaces, making it ideal for vehicle, bicycle and pedestrian traffic.



Fast, efficient application process with minimal impact on traffic flow.

Additional Liquid Road Advantages

- Seals minor cracks (less than 1/8" wide)
- Prevents surface water from penetrating into base materials
- Fills small voids and bonds loose aggregate particles
- Renews and restores surface of oxidized asphalt
- Helps prevent raveling
- Less expensive than slurry or chip seal
- Provides a smooth anti-skid texture
- Excellent Durability

Liquid Road® vs. Chip Sealing



Liquid Road



Chip Seal

Chip Seal consists of an application of asphalt emulsion followed by an application of loose rock.

Liquid Road® vs. Chip Sealing Cont.'

LIQUID ROAD	CHIP SEAL
Smooth anti-skid texture with aggregate fully encapsulated and locked down on pavement	Loose rocks that cause broken windshields, chipped paint and loss-of-control crashes of vehicles, motorcycles and bicycles
Smooth Ride for cars, motorists and bicycles	A rough ride for cars, motorcycles and bicycles
Quiet riding surface for motorists	Significant amount of road noise due to rough surface
Able to apply line striping and traffic markings immediately after material dries	Unable to apply line striping and traffic markings for several weeks- jeopardizing motorist safety
Rich black color provides enhanced traffic marking visibility for added driver safety	Traffic markings more difficult to see on light colored stones or "chips"
Rich black color melts snow and ice faster than lighter colored pavement	Light color prevents melting of snow and ice
Liquid Road sheds water providing long term protection from moisture damage	Porous rock surface traps moisture, leading to accelerated deterioration of chip seal surface treatment
Aggregate is locked into the polymer modified, fiber reinforced asphalt emulsion	The majority of rocks or "chips" are dislodged under traffic leading to accelerated surface treatment failure
Clean, dust-free and fume-free application process	Significant dust and fumes are created during the chip seal application process
Economical to apply	Costly to apply due to equipment labor and excess rock that is wasted

Liquid Road® vs. Slurry Sealing



LIQUID ROAD	SLURRY SEAL
A smooth riding surface for cars, motorists and bicyclist	Rough surface results in rough ride for cars, motorcycles and bicycles
Quiet riding surface for motorists and bicyclists	Significant amount of road noise due to rough texture
Flexible surface coating moves with pavement for excellent adhesion	Brittle nature of slurry seal leads to premature cracking, spalling and delamination
Does not affect curb, gutter or manhole heights	Adversely affects curb, gutter and manhole heights
Economical to apply	More costly to apply
Short drying and curing times - typically two to four hours	Longer drying and curing times - up to twelve hours
Easy to mix and apply for consistency throughout project	The ratios of emulsion, aggregate, water and mineral filler must be continuously kept in a narrow tolerance making it more difficult to maintain consistency throughout the project

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.