# Enviroseal LAS-320 Concentrate

**LAS-320 is a polymeric fuel resistant asphalt sealer developed for airfield applications. It makes a molecular bond with oxidized asphalt surfaces and penetrates imperfections cracks and eruptions. LAS-320 makes the surface impervious to water and is chemical resistant**.

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# Enviroseal LAS-320 Concentrate

**Enviroseal manufactures concentrated LAS-320 for commercial and industrial applications allowing the customer to reduce transport costs at a significant savings. This product is mixed one part LAS-320 concentrate with one part water and spray applied to make a chemical bond to new or old asphalt.**

## LAS-320 is

- Classified as a Fuel Resistant Sealer by the FAA
- Low VOC Rating 94 Grams per Liter
- Environmentally safe
- No odor and No tracking
- Repels liquids and chemicals
- Eliminates premature HMA degradation and UV damage
- Non-toxic - Non-hazardous - Non-flammable
- Dries quickly- usually less than 60 minutes
- Can be striped within one hour after drying
- Ease of application, can be applied with a broom or sprayed
- Coverage rates average 100 square feet per gallon after mixing with water

# LAS-320

## Protects

Asphalt surfaces from degradation caused by UV or chemical spills. A good asphalt pavement will not last forever; external factors destroy the asphalt oil that binds it all together. When oxygen and water combine with the asphaltic binder of the pavement, a chemical change takes place. At first, this process is necessary for the pavement to become hard and firm. Later, if this process is not arrested, a complete deterioration of the asphaltic binder will take place and reduce the pavement to a layer of loose stone. The asphalt binder is essentially what differentiates a gravel road from a paved road. Heat & Sunlight will accelerate the deterioration process; salt will act as a catalyst. Water which penetrates the surface can get into the base course to cause trouble, and at the same time start oxidizing the asphaltic binder inside the pavement.

## Preserves

The integrity of asphalt to seal the exposed surface and lock in the properties of the binder which provide flexibility and binding qualities. Using LAS-320 will provide waterproofing and prevention of water intrusion which leads to base deterioration.

## Provides

Resistance to the effects of weathering and oxidization and Increased aggregate retention of the surfacing material. This sustainable process improves safety, reduces maintenance interventions, extends the life of the existing surface and offers a best value asset management solution.

# LAS-320 vs Coal Tar

Fuel-resistant sealers are frequently applied to the surface of the pavement to prevent degradation from fuel and oil spills. Since oils derived from coal are highly aromatic and less compatible with petroleum-based fuels and lubricants, common sealers usually contain coal tar as the primary binder.

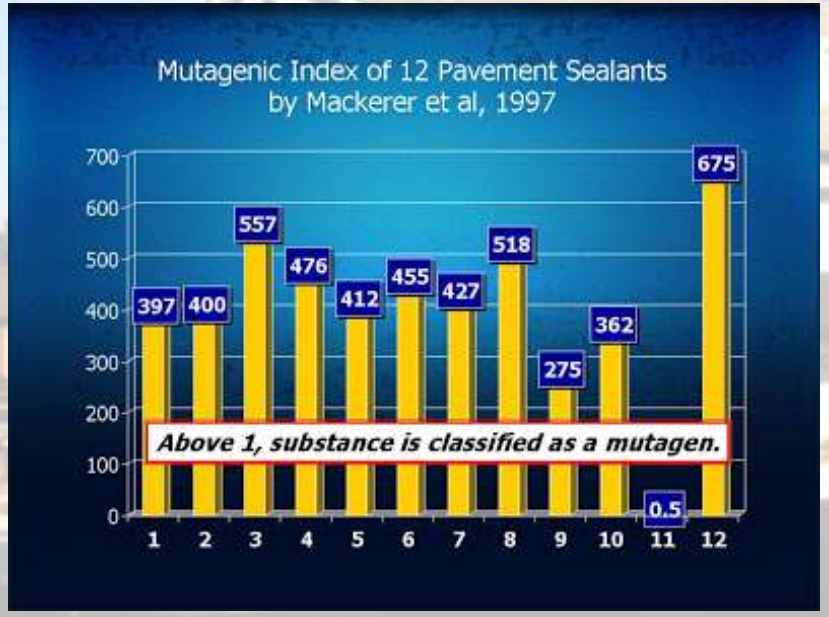
Although coal tar-based sealants can be effective in protecting HMA pavements, their use has been curtailed due to three significant drawbacks:

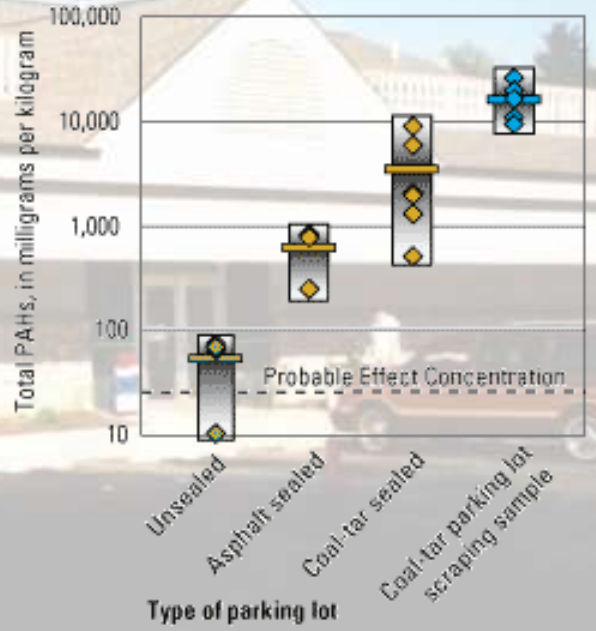
1. The coefficient of thermal expansion for coal tar sealants is different from that of the underlying HMA pavement, resulting in cracking of the sealant resulting in repeated applications.

2. Coal tar contains significant amounts of polycyclic aromatic hydrocarbons (PAHs) known to cause mutagenic/carcinogenic behavior in human cells.

3. Direct skin contact can create health hazards for workers when PAHs are absorbed through the skin during product application.

# LAS-320 is a blended polymer system that is free of Polycyclic Aromatic Hydrocarbon (PAH)




*"The increased cancer risk associated with coal-tar-sealed asphalt (CSA) likely affects a large number of people in the U.S. Our results indicate that the presence of coal-tar-based pavement sealants is associated with significant increases in estimated excess lifetime cancer risk for nearby residents," said E. Spencer Williams, Ph.D., principal author of the study and Baylor University assistant research scientist at the Center for Reservoir and Aquatic Systems Research in Baylor's College of Arts & Sciences.*

# Application of LAS-320 Concentrate

LAS-320 Concentrate must be mixed one part water to one part product. The materials must be blended by agitation, stirred, or recirculated until thoroughly mixed.

**SURFACE PREPARATION**

The surface should be thoroughly cleaned by Blowing, sweeping and/or pressure washing.

If there are any areas with decomposing asphalt due to petroleum deposits, they should be cleaned thoroughly with detergent and rinsed with high-pressure water. The area to be treated should be dried and cleaned prior to application. Prime affected area with LAS-320 and allow to dry before finishing entire area

If there are significant deviations (up to ½") in the asphalt surface, mixing sand and LAS-320 can be slurried in, cement can be added for increased strength and abrasion resistance.

**BRUSH METHOD**

Simply pour LAS-320 on surface and spread liberally with a push broom. Approximate coverage is 80 to 100 square feet per gallon or 2.0 to 2.7 square meters per liter, depending on surface condition. Work the LAS-320 thoroughly into the asphalt surface.

**SPRAY METHOD**

If a sprayer is to be used, reduce the size of the spray nozzles from conventional asphalt spray. An airless paint sprayer can be used as well. Apply LAS-320 sufficiently to coat the surface and allow to penetrate and seal thoroughly. Avoid overspray and use shields as necessary.

**APPLICATION TEMPERATURE**

Do not apply at temperatures below 45°F (7°C) or surface temperature over 130°F (55°C)

**CURE TIME**

The time to dry will vary depending on ambient conditions. Normally a treated surface can be opened to pedestrian traffic in 60 minutes or less. If stripes are to be painted, 90 minutes of dry time is recommended. A full 24-hour cure is recommended before area is opened to vehicular traffic. Depending on ambient conditions (i.e.: temperature and humidity), areas can be opened to light traffic in as little as 3 hours.

**CLEAN UP**

LAS-320 requires little clean-up effort. Clean all equipment immediately with water. Dried LAS-320 will be difficult to clean and fabric stains are permanent. As with any chemical, proper safety and eye protection is recommended. Refer to MSDS and all product information and follow safety precautions. LAS-320 will stain surfaces, proper preparation is necessary.

**SLIP RESISTANCE**

Sand can be manually broadcasted at a rate of 0.26 pounds per square yard to increase slip[ or skid resistance. Immediately after LAS-320 is applied, broadcast sand evenly before it dries. Additional brooming may be necessary for uniformity.