



500 Farmers Market Rd., # 18  
Fort Pierce, FL, 34982-USA  
+1-772-323-5400 - 800-775-9474

Email: [info@enviroseal.com](mailto:info@enviroseal.com) Web: <http://www.enviroseal.com>



## LAS-320™ Application Rates

LAS-320™ was developed as a fuel resistant asphalt sealer for protection and preservation of airfield applications that makes a molecular bond with oxidized asphalt surfaces that seals and penetrates imperfections and cracks. LAS-320™ is not like typical asphalt sealers because it has a low viscosity similar to water, because of its low viscosity it does more than merely coat the surface by adsorbing into degraded asphalt. Application rates vary depending on the surface condition, texture, porosity, age, and application method. In general, LAS-320™ is applied to adsorb and coat the surface without puddling. LAS-320™ can wear off the top surface stones but will remain adsorbed in the asphaltic binder. When cured, LAS-320™ makes a strong bond that prevents damage from fuels, chemicals, Ultra Violet, water, and freeze/thaw.

### Application rates of LAS-320™ depend on factors that include

- Age of asphalt
- Surface texture
- Application method
- Previous sealcoat applications
- Degree of asphalt binder degradation/oxidation

#### Age of Asphalt

New asphalt has fresh oils which should weather for a few weeks before application. High application rates over 125 square feet per gallon (3 M2/liter) can be expected. Over time, these oils wash away and evaporate that eventually make the asphalt brittle and porous, UV oxidation compounds the degradation process..

#### Surface Texture

With a corrugated or textured surface, there is more surface area to be coated compared to a flat surface.

#### Application Method

LAS-320™ can be spray applied with a bituminous distributor, other spray devices, or simply poured on the surface and spread evenly with a broom. If a spray application is done you can pre-determine the application rate but there is no consideration for what the surface can adsorb to achieve maximum protection. The Broom method will mechanically agitate it in the surface and produce excellent results.

#### Previous Sealcoat Maintenance Applications

If the asphalt has had previous sealcoat applications, they may not be degraded sufficiently to allow LAS-320™ complete adsorption into the asphalt binder resulting in only the sealcoat being covered.

#### Degree of asphalt binder degradation/oxidation

Most damage to asphalt surfaces is related UV deterioration and petroleum-based fuel spills. LAS-320™ is formulated to prevent the destruction from both of these conditions. Asphalt that is aged with the binder oxidized will adsorb liquids damaging the asphalt. LAS-320™ is adsorbs into the degraded binder to strengthen and preserve the integrity by preventing further deterioration.

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### **How to estimate the amount of LAS-320™ to use**

LAS-320™ has similar viscosity to water so we can use water to determine the approximate application rates. By applying 5-gallons (20 liters) of water by spray or broom and spreading evenly, determine the square area that was covered completely without puddling. Divide the square area by the volume of water to determine approximate the coverage. LAS-320™ is typically applied at +/- 100 square feet per gallon (2.5 M2/liter) but can be as low as 65 feet or as high as 150 feet or more per gallon (1.6 to 3.7 liters/M2).

### **Typical application rates for various surfaces are as follows:**

#### **Residential driveway, 25 years old with no prior maintenance**

55 sf/gallon (1.25 M2/liter) applied by hand pouring directly on the surface and spread with broom. Numerous cracks filled with sand. Link to video for application as follows:

<https://www.youtube.com/watch?v=v6P8XCERaK8&t=9s>

#### **Residential driveway 10 years old with one sealcoat maintenance aged 5 years:**

100 sf/gallon (2.5 M2/liter) spray applied with broom finish. Moderate cracking filled with sand. Link to video for application as follows: [https://www.youtube.com/watch?v=LOwSgd\\_CLeI](https://www.youtube.com/watch?v=LOwSgd_CLeI)

#### **Industrial site 20 Acre (8 Ha)**

This asphalt was five years old with minimal binder oxidation and a mostly smooth surface. The purpose was to protect the asphalt from accidental chemical spills and extend the lifecycle in general. Link to video for application as follows: <https://www.youtube.com/watch?v=n0a2gXhT85g&t=2s>

#### **Pearson International Airport, Toronto Canada**

300,000 square feet (27,871 square meters) of new asphalt installed in the tarmac extension was three months old. The application of LAS-320™™ was done by spray and light brooming to remove puddled areas. The approximate coverage rate was 150 sf/Gallon (3.68 M2/liter) or more

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