



Distributors Worldwide

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ENVIROSEAL LAS-320

Technical Product Information

DESCRIPTION:

LAS-320 is manufactured exclusively by Enviroseal and is a proprietary formulation. It is a non-asphaltic emulsion seal coat / preservative material that primarily contains inorganic co-polymers. It is an environmentally friendly product that has a VOC (Volatile Organic Content) of 94 grams per liter and does not contain PAH (Poly Aromatic Hydrocarbons) or other harmful chemicals. It dries fast, will not track, and provides long term protection against premature HMA degradation from fuel or UV damage. LAS-320 molecularly bonds with an oxidized asphalt surface extending the life cycle of HMA.

AREAS OF APPLICATION:

LAS-320 can be used to seal Hot Mix Asphalt (HMA) pavement surfaces from weathering, water intrusion, freeze/thaw damage, and provides a fuel-repellant pavement surface. LAS-320 can be applied to a HMA pavement by almost any application method.

PHYSIOGRAPHIC FACTORS:

LAS-320 can be applied with a bituminous distributor, other spray devices, or push brooms by hand. Typical application rates average 100 ft²/p/gal or 2.46 liters/M² depending upon pavement surface conditions. The sealer is classified as a non-hazardous material by the U.S. Environmental Protection Agency and is nontoxic, non-flammable, and environmentally safe. It can wear off of the surface stones in the asphalt but will remain on and in the asphaltic material. This chemical interaction with the asphalt will prevent the intrusion of petro-chemicals, acid, and water. Applications have lasted in excess of 5 years with minimal color degradation. This degradation is a direct result of surface wear of the aggregate material in the asphalt mix. The protection continues to be effective at elevations below the top wearing surface. Most damage to asphalt surfaces is related UV deterioration and petroleum based fuel spills. LAS-320 was specifically formulated to prevent the destruction from both of these conditions.

DRY TIME

Drying time will vary due to atmospheric conditions, usually from 20 to 40 minutes depending on ambient conditions. Enviroseal recommends that the surface not be used for 24 hours so that the protectorant can cure properly. Striping can be done within the first hour.

SKID RESISTANCE

When additional skid resistance is important, a sand sized aggregate can be combined with the applied mixture. Tests using slag steel sandblasting medium like "Black Beauty" 40 / 60 grit which is very effective and economical to use.

Environmentally Safe products for Today's Construction Projects



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APPLICATION TEMPERATURE/CONDITIONS

Normal spray application temperature from 40° f (4.5° c) to 130° f (60° c). Surface must be dry and free of dirt, debris and contaminants that could inhibit adsorption into surface.

LAS-320 SUPPLY/PACKAGING

LAS-320 is supplied in both concentrate and ready to use formulations. The concentrate is mixed one part water to one part LAS-320 concentrate. Packaging is in 5-gallon pails, 55-gallon drums, and non-returnable 275- and 330-gallon IBC poly totes. LAS-320 is shipped from our manufacturing facility in Port St. Lucie, Florida.

SHELF LIFE/STORAGE

Do not store over 130° f (60° c) or below 32° f (0° c). For storage in excess of three months, the product must be agitated. Typical shelf life is one year.

LONG TERM CONSIDERATIONS

Long-term performance studies have shown excellent protection against premature degradation of HMA. In more than two years of US military studies, LAS-320 provides a uniformly black appearance with no noticeable defects and is considered a "Fuel Resistant" (FR) coating by the FAA.

HISTORY

Originally developed by our team of researchers in 1997 and evaluated by US Military for use in airfield applications. LAS-320 has been successfully used since July of 1998 in both Civilian and Military projects. Airfield applications include the Egyptian military, secondary fuel containment on Diego Garcia Naval Air Station, secondary fuel containment at Fort Bliss, Texas, USAF Vandenberg AFB, California, MacDill AFB, Florida, McGuire AFB, New Jersey, NATO AFB, Poland, Toronto International Airport and others.