



# **DuraShield**

Coating for Parking Lot Preservation

## **Recommended Application Procedures**



# **StreetBond**

*Updated: September, 2016*

# Balanced Coating Properties

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- StreetBond® DuraShield Pavement Coating is an acrylic, waterborne coating specifically designed for application on hot mix asphalt (HMA) pavements. It has a balance of properties to ensure good adhesion and movement on flexible pavement, while providing good durability and color stability.
- StreetBond® DuraShield Pavement Coating may be used on textured or non-textured HMA pavement surfaces.
- All StreetBond® Pavement Coatings are environmentally safe and have low VOC's (Volatile Organic Compounds).
- StreetBond® DuraShield Pavement Coating should only be applied when the air temperature is 50°F / 10°C and rising and will not drop below 50°F / 10°C within 24 hours. No precipitation should be expected within 24 hours.

# Balanced Coating Properties

All StreetBond® coatings are developed to have the highest possible performance based on six categories: Flexibility, Durability, Friction, Environmental Responsibility, Color Stability and Chemical Resistance.



**Durability:** StreetBond® coatings use an epoxy-modified formula that is specifically designed to meet traffic demands even in wet conditions.



**Flexibility:** Asphalt is flexible. Coatings therefore must have flexibility to move with it. StreetBond® coatings are specifically formulated to flex with asphalt across a wide temperature range.



**Friction:** Slip and skid resistant aggregates give StreetBond® coatings greater traction, making coated surfaces safer for foot and vehicle traffic.



**Color Stability:** Advanced acrylic polymer technology and high-quality pigments give StreetBond® coatings long-lasting color retention characteristics, especially against UV rays.



**Chemical Resistance:** StreetBond® coatings are not affected by fuel, engine and de-icing agents that come into contact with road surfaces. StreetBond protects the asphalt from chemical damage.



**Environmentally Responsible:** StreetBond® coatings are water-based and formulated to contain no solvents that are harsh to humans or the environment. Asphalt coated with StreetBond® coating is fully recyclable.

## Other Features and Benefits of StreetBond® DuraShield:

Low Viscosity	Spray-able, Good Workability
Stabile Solution	Adhesion promoter available when necessary
Very Good Adhesion	
Good Sealing Properties	

# Mixing Instructions

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The following equipment has been designed specifically for optimal application of StreetBond® coatings. Other equipment may or may not be suitable and could compromise the performance of the StreetBond® coatings and/or reduce crew productivity.

Note: Airless Sprayers can not be used due to the coating's high aggregate content. Typical "sealcoat" sprayers will not spray DuraShield Pavement Coating due to the fibers and aggregate in the coating.

## Texture Spray Equipment:

- Texture Sprayer
- Hand Held Spray Hopper (For small jobs and accents)



## Mixing Equipment

- Jiffler mixing paddle + drill

## Air Compressor

- Capable of supplying (minimum) 12-14 cfm / 0.3 cubic meters/ min. of continuous air at 60-80 psi. (4.0 – 5.5 atm)



## 8000 Watt Generator (For Mixer and/or Texture Spray Equipment)

- Capable of supplying 7500W
- Smaller sprayers need less power, refer to sprayer manual



## Masking Materials

- Duct tape
- Plastic/paper/masking board



## Coating Distribution Tools

- Squeegees
- Thick nap rollers (can be used to provide texture to non-stamped surfaces)

**Mix** thoroughly, using the StreetBond® Coatings Mixer, or a Jiffler Mixing Paddle and high powered drill, for 3 minutes. Properly mixed coating will have no signs of color separation and very small amounts of aggregate settling.

# Surface Preparation

## **CLEAN SURFACE:**

Dirt, debris, water and contaminants sitting on the surface will affect adhesion of the StreetBond® coating. Thoroughly clean surface using a broom and backpack blower / compressed air. Where dirt and debris is severe, a power washer may be required. Areas containing chemical contaminants such as vehicle fluids need to be treated using a degreasing solution. Proper removal of contaminants and degreasing solution is necessary prior to the applying the StreetBond® coating.

Ensure that the surface is completely dry prior to applying StreetBond® coatings.



**Important! StreetBond® Coatings are meant to adhere to the oils in the asphalt pavement. If there is a contaminant on the surface, it may affect adhesion.**

## **MASKING:**

Use duct tape, or other suitable tape, to mark edges of the area to be sprayed.

Mask off areas where coating or overspray is not wanted using plastic sheeting, tarps, coating shield, paper or other suitable product.

This will ensure sharp, aesthetically pleasing edges, and reduce overspray.



# Installation

The StreetBond® DuraShield Pavement Coating is to be applied in two coats by squeegee or spray application method using the *DuraShield Coating and Coverage Rate Guide* below.

1. **Squeegee Application:** Pour the contents of the bucket on the surface and evenly distribute the coating to at the proper coverage rate. The second coat is to be applied once the first coat has dried.
2. **Spray Application:** Hold the spray gun between 24” and 32” (610-813 mm) above the asphalt surface and apply the coating at the proper coverage rate. The second coat is to be applied once the first coat has dried. Back-rolling using a large nap roller is recommended to ensure proper thickness of all areas and uniform coverage rates.

**Note:** Before spraying, make sure you understand your equipment. Operation Manuals are included with your equipment and overview videos are available online.

## DuraShield Coating Coverage Rate Guide

	TOTAL COVERAGE* (approx.)		
Container Type	Pail	Drum	Tote
Container Product Amount	3.5 gal. (13.2 L) in a 5 gal. (18.9 L) pail	42 gal. (158.9 L) in a 55 gal. (208.2 L) drum	210 gal. (794.9 L) in a 275 gal. (1040 L) tote
Container Coverage	175 ft <sup>2</sup> (16 m <sup>2</sup> ) per pail or 50 ft <sup>2</sup> (4.6 m <sup>2</sup> ) per gallon	2,100 ft <sup>2</sup> (195 m <sup>2</sup> ) per drum or 50 ft <sup>2</sup> (4.6 m <sup>2</sup> ) per gallon	10,500 ft <sup>2</sup> (975 m <sup>2</sup> ) per tote or 50 ft <sup>2</sup> (4.6 m <sup>2</sup> ) per gallon

	COVERAGE RATE* (approx.)		Warranty Length
2 Coat Application	NON - TEXTURED		3 Year Limited
	1 <sup>st</sup> Coat	2 <sup>nd</sup> Coat	
Application Rate	1 gal/100 ft <sup>2</sup> (0.41 L/m <sup>2</sup> )	1 gal /100 ft <sup>2</sup> (0.41 L/m <sup>2</sup> )	

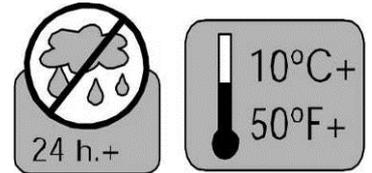
\*Actual coverage may be affected by the texture, age, and application method of the asphalt pavement substrate. There will be less coverage with the first layer and higher coverage with subsequent layers. Areas of high traffic, such as drive lanes, entrances and exits may need additional coats to maintain durability and performance.

# Cool Weather Warning

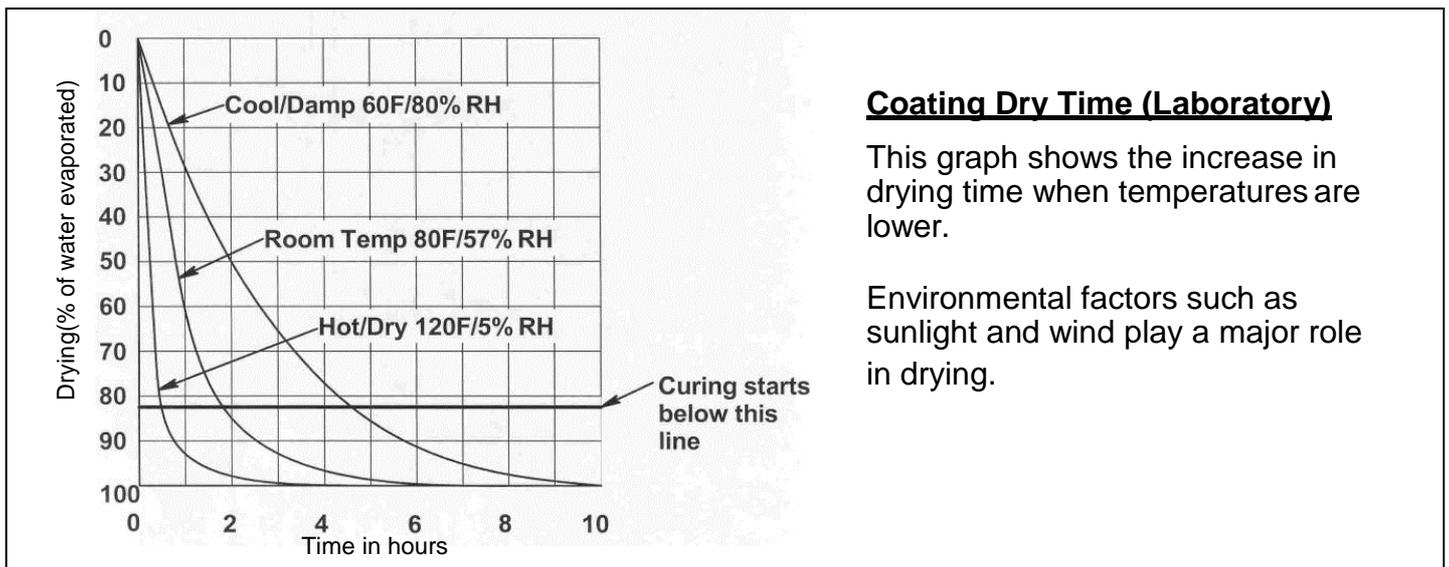
Application of StreetBond® coatings in cool temperatures will slow the rate of drying and curing which could lead to coating failures. Moisture has to evaporate from the coatings in order to dry. Only after the coatings dry will they start to cure. Shorter days, wind, shaded areas, direct sunlight, cooler temperatures, morning dew and humidity **dramatically affect dry time and performance.**

## COOL WEATHER TIPS:

- Air temperature needs to be 50°F / 10°C and RISING and not drop below 50°F / 10°C for 24 hours.
- Substrate temperature needs to be 50°F / 10°C and RISING.
- Keep traffic off coating until it is completely dry.
- There should be no rain / moisture in forecast for at least 24 hrs.
- Do not apply late in day. Application of coating in the morning will allow more time to dry through day.
- Pre-heated asphalt can improve dry times.
- Air flow and gentle heat can improve dry times.
- Add the minimum amount of water, as outlined in the mixing instructions.



**If StreetBond® coatings are applied when moisture cannot evaporate, then the coating will not dry. The drying and curing of StreetBond® coatings have a direct impact on performance.**



**StreetBond® coatings get harder with age.**  
**The longer you wait to introduce traffic, the better it will perform.**

# Hot Weather Warning

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StreetBond® coatings need moisture evaporation to dry and cure. In hot temperatures, this may happen very quickly and can lead to a number of installation challenges if the proper steps aren't taken. High temperatures will shorten handling time of coatings.

## HOT WEATHER TIPS:

- Be aware of surface temperatures. Surface temperatures over 120°F / 49°C can cause coating to flash dry and will shorten working time.
- Use ice water to increase the working time of StreetBond® coatings and help prevent blockages in the pump and hoses.
- Prime the sprayer by running ice cold water through it first. This will help the coatings to follow through the system without clogging.
- Apply coating early in the morning while it is cooler and sun is less intense.
- Keep the coating out of direct sunlight before and during mixing.

**If StreetBond® coatings are applied in hot temperatures; coatings can cure extremely quickly. Take precautionary measures like those above.**

# StreetBond Limited Warranty

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GAF warrants that StreetBond® DuraShield Pavement Coatings will be free from manufacturing defects that adversely affect performance for a period of three years following the completion of installation on a sound asphalt substrate, in accordance with published application instructions, as long as the StreetBond® coatings were installed during the shelf life set forth on the product label or container.

GAF's sole responsibility under the warranty is to provide replacement material for that portion of the StreetBond® coating that peels, delaminates, or shows abnormal wear, or at GAF's sole option, the cost value of said StreetBond® coating.

This Limited Warranty does not cover damages to the StreetBond® coatings resulting from anything other than an inherent manufacturing defect including:

- Faulty application or application not in strict accordance with GAF's published application instructions.
- Exposure of StreetBond® coatings to damaging substrates.
- Settlement, movement, cracks, defects or other failures of asphalt structure or surface over which the StreetBond® coatings were applied.
- Defects in design of the asphalt structure of surface over which the StreetBond® coatings were applied.
- Causes beyond normal wear and tear, such as unusual weather conditions or natural disasters.
- Impact of foreign objects or physical damage caused by any intentional or negligent acts, accidents, misuse, abuse or the like including vandalism, tire scuffing, landscaping, snow removal equipment and studded or traction tires.