

DuraShield Pavement Coating (Part A & B) Color: Solar Gray

Technical Data Sheet

DuraShield Solar Gray is a two component waterborne epoxy-modified acrylic coating has been specially formulated using ultraviolet reflective technology to provide initial solar reflectance of SR=0.36. DuraShield Solar Gray can help mitigate heat-related asphalt damage by reducing peak temperatures that accelerate asphalt binder aging, and can provide a cooler surface in hot sunny conditions to improve comfort and help contribute to urban heat island mitigation. DuraShield has a balance of important properties including flexibility, adhesion, and color stability that optimize the preservation of asphalt pavements while also protecting the pavement from the harmful effects of oxidation from UV exposure.

PRODUCT INFORMATION

| | |
|--------------------------------------|--|
| Density | 14.3 lbs./gal (1.7 kg/l) [ASTM D1475] |
| Volume Solids | 57% (±2) [ASTM D2697] |
| Weight Solids | 75% (±2) [ASTM D2369] |
| VOC (calculated) | <50 g/L |
| Taber Abrasion (Dry - H-10 wheel) | 0.7 g/1,000 cycles [ASTM D4060] |
| Taber Abrasion (Wet - H-10 wheel) | 3 g/1,000 cycles [ASTM D4060] |
| Freeze Point | 32°F (0°C) |
| Friction (Dry) | >65 [ASTM E303-93] (2013) |
| Friction (Wet) | >35 [ASTM E303-93] (2013) |
| Drying Time (Touch Dry) | 35 minutes at 73°F (23°C) & 37% humidity [ASTM D5895] Drying time will increase at higher humidity and/or lower temperatures. |
| Mandrel Bend | 1-1/2 in. @ 23°C [ASTM D522 - 93 A] |
| Hydrophobicity Water Absorption | < 6% [ASTM D570] |
| Shore Hardness | 80.8 [ASTM D2240] |
| Solar Reflectance | 0.36 (Initial) |
| Standard Colors | Gray |

Note: Values are approximate and subject to normal manufacturing variations. These values are not guaranteed and are provided solely as a guide.

Uses and Advantages

Uses:

DuraShield Pavement Coating is used for the following asphalt surfaces:

- Parking Lots
- Driveways
- Pathways
- Raised Medians
- Pedestrian Plazas
- Restoration

Advantages:

- Excellent solar reflectance with minimal glare
- Low odor.
- Excellent chemical resistance.
- Helps protect asphalt pavement from the harmful effects of UV, inclement weather and chemical exposure
- Friction properties are suitable for pedestrian & vehicular applications.
- Cures hard and does not track after curing, even in hot weather.

Packaging & Shelf Life

One unit of Durashield Pavement Coating consists of:

(1) - Part A: 5-gallon (3.75 gal net content)

(1) - Part B: 1-pint (10 oz net content)

or

(1) - Part A: 55-gallon drum (45 gal net content)

(1) - Part B: 2-gallon (1.6 gallon net content)

Shelf Life is 24 months from date of manufacture in unopened containers if stored properly in a clean and well-ventilated area at 40°F-90°F (4°C - 32°C). Storage outside this temperature range may shorten shelf life. Keep containers covered when not in use. Do not allow material to freeze.

Warranty

StreetBond products are covered under the StreetBond 1-Year Limited Warranty. See streetbond.com for complete coverage and restrictions. Additional coverage may be available for purchase for eligible projects. Please contact your GAF - StreetBond representative for details.

Application Instructions

Substrate Preparation: The asphalt pavement surface must be dry and free from all foreign matter, including, but not limited to, dirt, dust, de-icing materials, and chemical residue. Where DuraShield is being applied to a surface that previously had sealcoat applied and there are areas that have significant sealcoat remaining, it may be necessary to treat the surface by first pressure washing with a 12 inch fan and while the surface is still wet, removing loose material using a rotary broom with aggressive bristles. The surface should then be allowed to dry thoroughly (typically 24 to 48 hours). StreetBond Adhesion Promoter should be applied to areas with exposed aggregate where ponding water is anticipated. Allow to completely dry prior to application of DuraShield.

PRODUCT INFORMATION

Application Instructions (cont.)

Application:

- The asphalt pavement shall be thoroughly cleaned and completely dry prior to application.
- DuraShield is applied to the surface using a texture spray system such as sealcoat equipment based on a double diaphragm pump or the SB Flex Spray System.
- After spray application, back roll DuraShield to distribute the material evenly, retain a build thickness on the high points and create a consistent texture. The minimum coverage is 65 square feet per gallon (1.6 m²/liter) or 14 average dry mils (0.36 dry mm), normally applied in 2 layers. Allow each layer to dry before applying the next layer.
- The film thickness of DuraShield applied is an important consideration for service life.
- Exposure to higher traffic counts, more turning traffic and/or more winter conditions are all factors that would suggest additional layers be specified. GAF Technical Support can assist with recommended specification.
- Apply DuraShield only 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 of application.
- Add an additional pint of water to each nominal 5 gallon unit for every 10°F over 60°F (add a total of 4 pints water at 90°F) to a maximum of 6 pints. For substrate temperatures exceeding 110°F (43°C) please contact GAF Technical Support for modified application procedures.
- Do not open up to traffic before DuraShield is allowed to fully cure.
- Contact GAF Technical Support for detailed application instructions.

For Application Questions: Contact GAF at 1-800-766-3411

Recommended Application Coverage Rates:

| Minimum | Coverage (approx.) | | Thickness (approx.) | | | |
|---------|--------------------|-----------------------|---------------------|-----|------|-----|
| | | | WET | | DRY | |
| | sq ft/gallon* | m ² /liter | mm | mil | mm | mil |
| | 65 | 1.8 | 0.64 | 25 | 0.36 | 14 |

DuraShield Mixing and Coverage Table

| Temperature | Added water to facilitate application | | | Coverage per unit (per layer) | | |
|---------------|---------------------------------------|--------------|--------------|--------------------------------------|--------------------------------------|--------------------------------------|
| | Per 5 Gallon Pail Kit | Per Drum Kit | Per Tote Kit | 5 Gallon Kit Unit (ft ²) | Drum Kit per Unit (ft ²) | Tote Kit per Unit (ft ²) |
| 50°F to 69°F | 2 pints | 4 gallons | 20 gallons | 250 | 3,000 | 15,000 |
| 70°F to 89°F | 4 pints | 6 gallons | 30 gallons | 250 | 3,000 | 15,000 |
| 90°F to 109°F | 6 pints | 8 gallons | 40 gallons | 250 | 3,000 | 15,000 |
| >109°F | Contact GAF | | | 250 | 3,000 | 15,000 |

IMPORTANT NOTE: Adding water is to ease application in warmer conditions and **does not change** the area covered by a unit. Added water should not be included when estimating coverage rates.

Limitations & Precautions

Ambient and surface temperatures must be 50°F (10°C) and rising before coating application. Do not ship or store unless product is protected from freezing. No precipitation should be expected within 24 hours of product application. StreetBond DuraShield pavement coating cannot be altered using supplemental pigments or used as a part of other StreetBond systems.

Safety & Handling

For specific information regarding safe handling of this material, please refer to the Safety Data Sheet (SDS).

Cleanup

Thoroughly rinse application equipment with clean water before it dries.