



GuardTop® RoadShield RTU High Performance Ready to Use Asphalt Based Sealcoat

Revised 2/5/21

GuardTop RoadShield High Performance Ready to Use Asphalt Based Sealcoat Product Specification

GuardTop RoadShield is a high-performance mineral and fiber reinforced asphalt emulsion blended with polymers and special additives for outstanding adhesion, flexibility, and durability. GuardTop RoadShield helps your pavements look new again, providing the surface with a deep, rich black color and protection against raveling and cracking due to aggregate loss. Made with higher solid contents to be tougher and long lasting.

This product meets and exceeds the California Greenbook (2000) 203-9 specification, along with many other specifications.

Specifications	Minimum	Maximum	Test Method
Typical Density, lbs./gal	9.0	12	ASTM D 2939.07
Nonvolatile Components by Weight	50%	75%	ASTM D 2939.08
Asphalt Content by Weight	10%	30%	ASTM D 2939.21
Fine Aggregate Content by Weight	30%	60%	GuardTop Report
Polymer Content by Weight	2%	6%	GuardTop Report
VOC Content by Volume	0%	3%	ASTM D 244-89
	Requirements	Results	
Accelerated Weathering (2 yrs)	No Material Deterioration After Exposure	Passes/Excellent	Federal Spec TT-C-555B
Resistance to Wind Driven Rain (98mph)	No Leaks or Weight Gain	Passes/Excellent	Federal Spec TT-C-555B
Ultraviolet Resistance (12 yrs.)	No Cracking, Peeling, Chipping, or Flaking	Passes/Excellent	
Color as Received	Black	Pass	GuardTop Report
Cured Film	Deep Black	Pass	GuardTop Report
Material Uniformity	Uniform	Pass	ASTM D 2939.05
Flashpoint	160°F	Pass	ASTM D 2939.12
Drying Time, firm set	Within 8 Hours	Pass	ASTM D 2939.13
Resistance to Heat	No Sagging or Slipping	Pass/None	ASTM D 2939.14
Resistance to Water	No Cracking	Pass	ASTM D 2939.15
Flexibility	Pass	Pass	ASTM D 2939.16 (1)
Direct Flame Test	No continued combustion or slippage and run-down	Pass/None	ASTM D 2939.20
Wet Film Continuity	Uniform consistency	Pass	ASTM D 2939.22
Wet Flow	Uniformly homogenous	Pass	ASTM D 2939.19 (2)
Wet Track Abrasion Test (1 hr.)	< 30 g / sqft loss	Pass	ASTM 3910
Wet Track Abrasion Test (6 day)	< 30 g / sqft loss	Pass	ASTM 3910
Flashpoint	450° F	Pass	ASTM D 92 (3)
Softening Point	140° F	Pass	ASTM D 36 (4)

- (1) Flexibility test (ASTM D 2939.16) performed at 23° C.
- (2) Wet flow test (ASTM D 2939.19) performed at an angle 10° above horizontal.
- (3) Flashpoint (ASTM D 92) measured on asphalt before emulsification.
- (4) Softening point (ASTM D 36) measured on asphalt before emulsification.

Surface Preparation

1. Clean and fill all cracks 1/4" and larger with crack filler. Larger cracks may require several applications. For best results, it is recommended that all broken asphalt be removed and patched with new asphalt. It is also suggested that extreme low spots be filled with new asphalt. **New asphalt patches should cure for 30 days and replaced asphalt**



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4" or more in depth should cure for 180 days minimum before application of GuardTop RoadShield.

2. It is recommended that GuardTop RoadShield not be applied over a new or less than 1-year old slurry seal or microsurfacing. In extreme hot temperature zones, the slurry seal or microsurfacing should be aged through at minimum 1 heat cycle (summer) prior to GuardTop RoadShield applications.
3. Sealcoats will not adhere to surfaces with excessive oil and grease. For a quality job, clean all oil and grease deposits with a degreasing solution using a stiff bristle broom or a power operated cleaner. Areas completely saturated are recommended to be removed and replaced with new asphalt. Then apply GuardTop Oil Seal to all oil and grease stained surfaces with a small broom insuring full coverage over the stain.
4. After all pavement repairs have been completed, the surface should be clean and free of all dirt, debris, and loose graveled particles. Please note that dirt and loose debris will restrict the adherence of the sealcoat. To clean the surface, use a power broom, power blower and/or flush the surface with high pressure water.
5. It is recommended that the surface be sprayed with a mist of water in an amount that will leave the surface damp and free of standing water or puddles when ambient temperatures exceed 95°F. The misting procedure is critical when the ambient temperature is hot and on bright sunny days or when the pavement is excessively aged and porous.
6. For excessively weathered surfaces, a primer or fog seal should be applied to the surface. The primer should consist of a 50/50 mixture of SS1-h and water. Apply the mixture to the surface by spray and let dry before applying GuardTop material.

Application

1. GuardTop RoadShield material comes ready to use (RTU), NO DILUTION REQUIRED **It is recommended that a two coat application of GuardTop RoadShield for optimum results**
2. GuardTop RoadShield should be allowed to dry a minimum of 24 hours before heavy traffic is permitted. Please note that when asphalt is cold, in shade or the ambient temperature is below 75°F, drying time may need to be extended. GuardTop RoadShield should not be applied in temperatures below 55°F and extra care should be taken in temperatures exceeding 105°F. Material should not be applied within 48 hours of forecasted rain, as rain may affect curing of asphalt sealcoat products.
3. GuardTop RoadShield can be applied by squeegee, brush or spray applications depending on surface or preferred method of the contractor (i.e. squeegee 1st coat and spray 2nd coat)

Application Rates

The following table can be used as a guideline of GuardTop RoadShield coverage per square yard of surface area. Please note that this is only a guideline and exact coverage depends upon both the condition of existing pavement and the surface condition desired after application. For lighter applications on smooth, medium surfaces or more than 2 coat applications on excessively rough surfaces, please consult your local manufacturer's representative for further recommendations.

Surface	Recommendation per square yard per coat
Smooth dense surface	Consult manufacturer's representative
Medium surface	Consult manufacturer's representative
Rough, aged surface	0.20 to 0.35 gallons per square yard per coat
Excessively rough surface	Consult manufacturer's representative

Caution

Do not store in extremely warm conditions. Keep from freezing.

Packaging

Bulk, 5 gallon pails and 55 gallon drums