



GuardTop® Ultra High Performance Sealcoat Product Specification

GuardTop® Ultra Asphalt Based Sealcoat

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GuardTop Ultra is a high performance mineral and fiber reinforced asphalt emulsion blended with polymers and special additives for outstanding adhesion, flexibility, and durability. GuardTop Ultra restores the asphalt binder lost through oxidation and weathering, while providing a durable surface treatment. GuardTop Ultra 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.

Specifications	Minimum	Maximum	Test Methods
Cone Penetration @ 77° dmm	340	430	ASTM D217
Nonvolatile Components % weight	60	70	CA Greenbook 203-9 (See Note 1)
Percentage Nonvolatile Soluble in Trichloroethylene by Weight	20	35	ASSHTO T-45-56
Wet Track Abrasion Test	0 g/ft ² Loss	<5 g/ft ² Loss	ASTM 3910-6.4
Viscosity	6,500 cps	15,000 cps	ASTM D 4402
Typical Density-lbs./gal	11.4	12	ASTM D 2939.07
Asphalt Content by Weight	17%	33%	ASTM D 2939.21
VOC Content by Volume %	<3%		ASTM D 244-89
Fine Aggregate Content by Weight	34%	50%	
Polymer Latex Content by Volume	1.8%	3%	
	Requirements	Results	
Accelerated Weathering	Non Material Detioration After Exposure	Passes/Excellent	Federal Spec (2 years) Exposure TT-C-555B
Resistance to Wind Driven Rain (98mph)	No Leaks or Weight Gain	Passes/Excellent	Federal Spec TT-C-555B
Ultraviolet Resistance (12 years exposure)	No Cracking, Peeling, Chipping, or Flaking	Passes/Excellent	
Color as Received	Black		
Cured Film	Deep Black		
Aggregate Content	3.0 lbs./gallon	5.0 lbs./gallon	GuardTop Report
Penetration, SFS, 77°F, 100g, 5s	45 dmm	Pass	ASTM D 5
Softening Point	>200°F	Pass	ASTM D 36
Ductility	10 cm	Pass	ASTM D 113
Material Uniformity		Pass/None	ASTM D 2939.05
Residue by Evaporation %	65%	Pass	ASTM D 2939-8
Flash Point	160°F	Pass/None	ASTM D 2939.12
Drying Time	2-6 Hours	Pass/Set	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	99.0	100.0	ASTM D 2939.16
Wet Flow	Uniformly homogenous	Pass	ASTM D 2939.19
Direct Flame Test	No continued combustion or slippage and run-down	Pass/None	ASTM D 2939.20
Wet Film Continuity		Pass/None	ASTM D 2939.22
Resistance to volatilization		Pass	ASTM D 2939.23



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Resistance to Impact		Pass	ASTM D 2939.26
Storage Stability, 24 Hour	0.1%	Pass	ASTM D 6930

Note 1: Meets or exceeds California Greenbook 203-9 Specification. Method for determination of nonvolatile components: Weight 10 grams of homogenous product into a previously tarred, small ointment can lid. Place a constant temperature oven at 325° for 1 ½ hours. Cool, re-weight and calculate nonvolatile components.

Surface Preparation

1. Clean and fill all cracks 1/8" 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 4" or more in depth should cure for 180 days minimum before application of GuardTop Ultra.**
2. 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.
3. 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.
4. 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. 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.
5. 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 Ultra material should be mixed with water to obtain a desired consistency before application. It is recommended that the maximum dilution should be 20% water to 80% GuardTop Ultra material. Apply GuardTop Ultra using a truck mounted tank, wheeled container, or can. Spread in continuous parallel lines by means of rubber faced squeegees, brooms or spray technique. On excessively rough areas consult your manufacturer's representative.

It is recommended that two coats of GuardTop Ultra be used during application to ensure a long lasting surface.

2. GuardTop Ultra 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°, drying time may need to be extended. GuardTop Ultra should not be applied in temperatures below 55° and extra care should be taken in temperatures exceeding 100°. Material should not be applied within 48 hours of forecasted rain, as rain may affect curing of asphalt sealcoat products.

Application Rates

The following table can be used as a guideline of GuardTop Ultra coverage per square feet of surface area. This table is based on two coats prior to water dilution of the product. 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.



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Surface	Recommendation
Smooth dense surface	25 to 30 gallons per 1000 sq. ft.
Medium surface	30 to 35 gallons per 1000 sq. ft.
Rough, aged surface	45 gallons per 1000 sq. ft.
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.