GuardTop TRMSS
Tire Rubber Modified Surface Sealer

Revised 6/24/2022

GuardTop Tire Rubber Modified Surface Sealer (TRMSS) Product Specification

Specifications for finished product	Minimum	Maximum	Test Method
Typical Density, pounds per gallon	8.3	9.0	ASTM D 2939.07
Nonvolatile Components by Weight	33%	50%	ASTM D 2939.08
VOC Content by Volume	0%	3%	ASTM D 244-89
Viscosity, Krebs Units	45	75	GuardTop Report
	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	GuardTop Report
Color as Received	Black	Pass	GuardTop Report
Cured Film	Deep Black	Pass	GuardTop Report
Material Uniformity	Uniform	Pass	ASTM D 2939.05
Flashpoint	> 450ºF	Pass	ASTM D 2939.12
Softening point	> 140ºF	Pass	ASTM D 36
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 (1)
Resistance to Water	No Cracking	Pass	ASTM D 2939.15 (1)
Resistance to Kerosene	Pass	Pass	ASTM D 2939 (1)
Flexibility	Pass	Pass	ASTM D 2939.16 (2)
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 (3)
Wet Track Abrasion Test (1 hr.)	< 10	Pass	ASTM 3910
Wet Track Abrasion Test (6 day)	< 10	Pass	ASTM 3910

(1) Tested using a ceramic panel following ASTM D 2939-25.1.1
(2) Flexibility test (ASTM D 2939.16) performed at 23° C.
(3) Wet flow test (ASTM D 2939.19) performed at an angle 10° above horizontal.

Specifications for base asphalt	Minimum	Results	Test Method
Flashpoint	> 450° F	Pass	ASTM D 92
Softening Point	> 140° F	Pass	ASTM D 36
Tire Rubber Content	10%	Pass	Supplier Report
Cone Penetration, 77ºF, dmm	15	30	ASTM D 5

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 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.

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3. After all pavement repairs have been completed, the surface should be clean and free of all dirt, debris and loose graveled particles. Please not 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
GuardTop Ultra RTU material should not be further diluted with water. GuardTop RTU is specifically formulated to provide superior performance and consistency without the need for added water. Apply GuardTop Ultra RTU 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.

GuardTop Ultra RTU 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 75ºF, drying time may need to be extended. GuardTop Ultra RTU should not be applied in temperatures below 55ºF and extra care should be taken in temperatures exceeding 105ºF. 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 RTU coverage. This table is based on two coat application of the ready to use 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.

Surface	Gallons Per sq. foot	Gallons per sq. Yard
Extremely smooth surface	0.020	0.180
Smooth dense surface	0.0235	0.225
Medium surface	0.030	0.270
Rough, aged surface	0.035	0.315
Excessively rough surface	Consult manufacturer's representative	

* Single coat applications are accepted based on specific criteria such as tight new asphalt surfaces, aesthetic coat or continuing surface seal programs of previously treated asphalt surfaces. Please contact your local GuardTop representative for further recommendations on single coat usage and coverage rates (i.e. 1 coat treatment gals = 0.11- 0.18 per square yard based on surface texture)

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

Packaging: Bulk, 5 gallon pails and 55 gallon drums.