



**ENVIRONMENTALLY FRIENDLY,
COOL PAVEMENT
SEALCOATING
PRODUCT**

GUARDTOP SEALCOATS – THERE'S NO EQUIVALENT

Since 1983, GuardTop® sealcoat products are among the best in the industry for appearance, performance and sustainability. It's no wonder that GuardTop is the preferred choice of public, private and institutional property owners and managers. It provides superior preservation, protection and beautification of pavements.



What is the Heat Island Effect?

Heat islands, also known as urban heat islands, are areas with significantly higher temperatures than surrounding rural areas and are common in densely populated areas across the globe. One of the main contributors to the heat island effect is dark pavement. Conventional asphalt surfaces absorb excess heat and can reach temperatures in excess of 160 degrees.

According to the EPA, heat islands can affect communities by increasing summertime peak energy demand, air conditioning costs, air pollution, greenhouse gas emissions, heat-related illness, mortality and reducing water quality.¹



Healthier for People and the Planet

CoolSeal by GuardTop® is designed to reflect the sun's energy to produce cooler surface temperatures through increased reflectivity, which may reduce surface temperatures by 10-25 degrees Fahrenheit (under certain conditions). The EPA states that reflective pavements such as CoolSeal can help mitigate heat islands.¹

Go Greener with CoolSeal by GuardTop®

Our commitment to sustainability has guided the development of CoolSeal by Guardtop®, a high-performance asphalt-based sealcoat that is designed to achieve lower surface temperatures through its lighter color and reflectivity. CoolSeal is perfect for playgrounds, parks, parking lots, driveways, residential areas, schools, bike paths and LEED-certified building projects.

Additional Benefits of CoolSeal

CoolSeal is designed to improve comfort and safety for children and animals on playgrounds, walking paths, schools, neighborhoods, bike trails and other community areas. According to the EPA, reflective pavements such as CoolSeal can reduce the temperature of storm water runoff and improve water quality, increase nighttime visibility, improve local comfort and reduce lighting requirements which saves energy and money.¹ CoolSeal meets ASTM Standard E903 and E892.

How CoolSeal Works

CoolSeal by Guardtop® is applied to asphalt surfaces to protect and maintain the quality and longevity of asphalt. The product is LEED eligible and can earn up to three LEED points. CoolSeal meets EPA and LEED requirements of **33 percent reflectivity** and lasts longer than conventional sealcoats.

Advanced Technology, Lower Lifetime Cost



Each CoolSeal application provides longer-lasting protection and fewer treatments are required to keep assets looking new over its lifetime. CoolSeal lasts longer than conventional sealcoats, which translates to lower maintenance

lifecycle costs and reduces inconvenience to residents and consumers.

CoolSeal Partners

GuardTop takes pride in working closely with experienced asphalt and sealcoat contractors, government agencies, and consultants. GuardTop has been applied to some of the country's most well-known communities, streets, sporting venues, business parks, retail locations and visitor destinations.





COOLSEAL BY GUARDTOP® VS. OTHER COOL PAVEMENTS

Not all cool pavements are created equal. CoolSeal by GuardTop is an asphalt-based sealcoat that provides a clear advantage compared to alternative cool pavement options.



GO GREENER WITH COOLSEAL BY GUARDTOP®

Our commitment to sustainability has guided the development of CoolSeal by Guardtop, a high-performance asphalt-based sealcoat designed to achieve lower surface temperatures through its lighter color and reflectivity. CoolSeal is perfect for playgrounds, parks, parking lots, driveways, residential areas, schools, bike paths and LEED-certified building projects.

- Light grey asphalt-based sealcoat
- Energy savings and emission reductions¹
- Lasts longer than conventional sealcoats
- Meets LEED and EPA requirements of 33% reflectivity
- Environmentally friendly and contains recycled materials
- Does not cause glare for drivers or pedestrians
- Has been shown to meet skid safety requirements
- Dries to a matte finish
- Normal street cleaning is recommended to best maintain reflectance



877-948-2738
www.guardtop.com



ADVANCED SEALCOATING

Environmentally friendly...durable...long-lasting quality asphalt product. Specially formulated from unique base stocks and components, CoolSeal by GuardTop's difference can be seen immediately in its color, consistency and durability. There is no better ally in making your asphalt stay cool, look great and maintain performance.

SOUTHWEST LOCATIONS

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(602) 296-7110

GuardTop® Express Orange
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Orange, CA 92867
(657) 224-9525

GuardTop® Express Tucson
3132 E. 45th Street
Tucson, AZ 85713
(520) 347-6144



¹ U.S. Environmental Protection Agency. 2012.
Reducing urban heat islands: Compendium of strategies.
Draft. <https://www.epa.gov/heat-islands/using-cool-pavements-reduce-heat-islands>



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CoolSeal By GuardTop® is covered by U.S. Patent No. 10,435,561 B2 and other pending applications and foreign patents.



CoolSeal by GuardTop® Product Specification

CoolSeal by GuardTop® RTU

CoolSeal by GuardTop Product Specification

GuardTop's commitment to sustainability has guided the development of CoolSeal by GuardTop, an ultra-high performance asphalt-based sealcoat that achieves lower surface temperatures with its lighter colored surface and higher reflectivity. Perfect for school districts, parking lots and LEED-eligible building projects.

Specifications	Minimum	Maximum	Test Methods
Cone Penetration @ 77°dmm	450	700	ASTM D217
Nonvolatile Components % weight	50	60	See note 1
Percentage Nonvolatile Soluble in Trichloroethylene by Weight	20	35	ASSHTO T-45-56
Solar Reflective Index (Typically 35-36)	33	45	ASTM E 1980
Solar Reflectance (Typically .34- .35)	.33	.42	ASTM E 903
Typical Density-lbs./gal	10.5	11.4	
Wet Track Abrasion Test (Typically < 1.0%)	0	20	ASTM 3910
	Requirements	Results	
Scrub Resistance	10,000 Cycles	Minimal Loss/No Failure	ASTM D 2486-17
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-%%B
Ultraviolet Resistance (12 years exposure)	No Cracking, Peeling, Chipping, or Flaking	Passes/Excellent	
Color as Received	Gray		
Cured Film	Gray		

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 CoolSeal by GuardTop.**
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 Oil Seal by GuardTop to all oil and grease stained surfaces with a small broom insuring full coverage over the stain.

**CoolSeal by GuardTop®
Product Specification**

3. After all pavement repairs have been completed, the surface should be clean and free of all dirt, debris and loose gravel 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.

Surface Compatibility

1. CoolSeal by Guardtop must be applied to asphalt surfaces. CoolSeal is not compatible with concrete or composite pavement.
2. Before applying other products such as road slurry over the top of existing CoolSeal you must ensure that there is sufficient void structure within the asphalt surface for proper adhesion. CoolSeal must be allowed to wear for 2-3 years after initial application for this to occur. For best results GuardTop recommends reapplying CoolSeal or any asphalt based sealcoat.

Application

1. GuardTop Asphalt Based Sealcoat is specifically formulated from unique base stocks and mineral aggregates and is designed to protect and beautify existing asphalt surfaces. It contains no coal-tar and remains environmentally friendly. GuardTop is engineered with a high solids content to make it tougher and longer lasting. application. Apply CoolSeal by GuardTop using a truck mounted tank, wheeled container, or can. Spread in continuous parallel lines by means of rubber faced squeegees or broom technique. On excessively rough areas, for the first coat, add 3 lbs. of 30 mesh sand and 1/10 gallon of GuardTop Latex Additive to each gallon of material. Apply as a normal first coat, and then follow with two coats of CoolSeal by GuardTop without the additive and sand. **It is recommended that two coats of CoolSeal by GuardTop be used during application to ensure a long lasting surface.**
2. CoolSeal by GuardTop 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. CoolSeal by GuardTop 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 CoolSeal by GuardTop 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.

Surface	Recommendation Per Sq. Yard
Smooth dense surface	.225 Gallon
Medium surface	.27 Gallon
Rough, aged surface	.315 Gallon
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.