

Guard Cote™

ASPHALT EMULSION PAVEMENT SEALER

Guard Cote™ is a polymerized high performance asphalt emulsion pavement sealer. Unlike other asphalt emulsion sealers, Guard Cote™ is produced from a modified asphalt with our exclusive continuous process colloid mill.

Guard Cote™ significantly outperforms other asphalt emulsion sealers.

- Preserves and protects asphalt pavements
- Produced from performance engineered asphalt
- Colloid milled for consistent, trouble free performance
- Compliant with regulations for sealer PAH content

Durable

Guard Cote™ exceeds the performance criteria described in most specifications for asphalt based pavement sealers. While it has similar composition to pavement sealers made from SS1-h or CSS1-h, Guard Cote™ is emulsified in our state of the art process with an asphalt specifically produced for exceptional performance as a pavement sealer. Guard Cote™ has superior wear resistance compared to conventional asphalt based sealers.

Great Value

Seals and weatherproofs porous asphalt surfaces. Helps protect asphalt pavements from oxidation caused by sunlight.

Consistent

We are the industry benchmark for production consistency and quality control. Every gallon of Guard Cote™ produced is the same as the the one before. Load to load, year to year. Consistency you can count on.

Regulatory Compliant

Guard Cote™ is compliant with any bans or restrictions for coal tar or PAH content. It contains no other restricted materials and typical PAH values are well below 0.1%. Guard Cote™ is water based and has minimal odor. VOC is less than 50 grams per liter. Guard Cote™ does not photosensitize the skin like coal tar or petroleum resin sealers.



Questions? give us a call at 800-594-0036.

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Guard Cote

Asphalt Based Pavement Sealer Concentrate

DESCRIPTION

Guard Cote is a polymer modified asphalt emulsion pavement sealer designed to be field mixed with mineral aggregate for superior longevity. It is suitable for use on any asphalt pavement. Guard Cote is produced with a colloid mill in a state of the art continuous process for unparalleled control and consistency of resin particle size and distribution. Guard Cote exhibits excellent bonding to any asphalt surface and is resistant to degradation from ultraviolet light. It forms a tough weather proof barrier on porous asphalt surfaces. Guard Cote exhibits outstanding wear resistance compared to conventional asphalt based sealers. Guard Cote is supplied as a concentrate, requiring dilution with water prior to application.



APPLICATION

Guard Cote must be applied to clean, structurally sound asphalt pavements that are surface cured and free from all loose and foreign debris. Wide cracks, alligatored areas and soft or sunken pavement must be properly repaired. The pavement surface must be dry. Areas previously saturated from sub-surface moisture must be dry and show no signs of renewed seepage for 24 hours prior to application. Oil

and grease spots must be properly cleaned and primed prior to sealing. All vegetation should be treated with a water based herbicide at least one (1) week prior to sealing and removed during final surface preparations.

Guard Cote can be applied by using spray equipment, mechanical squeegee equipment, brush or rubber squeegee. All application equipment must be capable of applying a sufficient quantity to uniformly coat the pavement surface at the specified application rates.

SPECIFICATIONS

Guard Cote meets the compositional criteria and exceeds the performance criteria described in most specifications for asphalt based pavement sealers. While it has similar composition to pavement sealers made from SS1-h or CSS1-h, Guard Cote is emulsified in our state of the art process with an asphalt specifically produced for exceptional performance as a pavement sealer. The following section contains typical test data for standards that are specific to the physical properties and performance of pavement coatings.

KEY ADVANTAGES

- Polymer modified for superior flexibility and durability
- Produced by emulsifying a performance engineered asphalt - NOT just a blend of road emulsion and fillers
- Continuous process colloid mill production assures the highest standard for product quality and consistency
- Protects pavement surfaces from the weather and oxidation from the sun

The asphalt used to produce Guard Cote meets the following standards for physical properties:

STANDARD	PROPERTY	RESULT
ASTM D5	Penetration of Bituminous Materials (units)	12-45
ASTM D113	Ductility of Bituminous Materials (cm)	5-15
ASTM D36	Softening Point of Bituminous Materials	>200° F.
ASTM D3381	Viscosity (275° F., Min., cSt.)	300
ASTM D2042	Solubility in Trichloroethylene	99.0% Min.

Guard Cote meets or exceeds the following criteria for performance evaluation of pavement coatings:

STANDARD	PROPERTY	RESULT
ASTM D2486	Scrub Resistance (10,000 cycles)	<1.00% loss
ASTM D4060	Dry Abrasion Resistance	Pass
ASTM D4799	Accelerated Weathering (5,000 hours)	Pass
ASTM D2939-15	Resistance to Water	Pass
ASTM D2939-16	Flexibility	Pass
ASTM D2939-22	Wet Film Continuity	Pass
ASTM D2939-26	Resistance to Impact	Pass
ASTM D2939-27	Resistance to Impact after Weathering	Pass

Guard Cote typical properties:

STANDARD	PROPERTY	RESULT
ASTM D2939-7	Residue by Evaporation	38.50 Min.
ASTM D2939-8	Ash of Residue	36.00-37.00
ASTM D2939-10	Drying Time (firm set in 8 hours)	Pass
ASTM D2939-13	Weight per Gallon	9.64
ASTM D3960	VOC Content (grams per liter)	<2.00

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MIX DESIGNS AND USAGE

Guard Cote, as supplied, is a concentrated pavement sealer designed to be mixed with water and mineral aggregate to form a ready to use pavement coating. The components are proportioned based upon a number of factors including age, texture and porosity of the pavement to be sealed, as well as the amount of traffic the pavement will receive (see recommendations below for further details).

Aggregates

Aggregates, such as silica sand and boiler slag, must be washed, graded and free from dust, clay or other foreign contaminants. The aggregate must be angular and of medium grain fineness.

Latex Additives

Guard Cote is highly polymerized and needs no additional latex additives. Some benefit may be derived from using latex additives designed to improve initial drying and set time (see recommendations below for suggested mix designs). Please see Brewer Technical Data for Rapid Dry for specific recommendations.

COVERAGE

Based upon the below referenced mix designs, Guard Cote coverage rates are as follows:

- 1st Coat - 0.10 - 0.15 gallon per square yard
- 2nd Coat - 0.08 - 0.12 gallon per square yard
- 3rd Coat - 0.08 - 0.12 gallon per square yard

When multiple coats are used, allow previous coat to dry so that it will withstand traffic without scuffing before applying the next coat of sealer. Temperatures below 70° F, relative humidities above 50%, and lack of air movement will retard curing and lengthen the time between coats.

PACKAGING

55 gallon metal drums and 4,500 gallon bulk tankers.

PRECAUTIONS

Apply Guard Cote to unsealed asphalt pavements or to surfaces previously sealed with refined tar or asphalt emulsion pavement sealers. Some discoloration of freshly applied sealer may occur in the presence of excessive moisture. Areas saturated or actively seeping subsurface moisture must be allowed to thoroughly dry before sealing with Guard Cote.

New asphalt pavements and repair areas must be allowed to cure for a minimum of sixty (60) days at a minimum daytime temperature of 60° F, before sealing with Guard Cote. A simple test to determine if pavement is ready to be sealed is to cast a gallon or two of clean water over the surface. If the water sheets out, uniformly wetting the surface and no oil rings appear, the surface is ready to be sealed. If the water balls up and/or shows signs of oil rings, the surface is not ready to be sealed and should be allowed to cure longer.

Guard Cote may cause minor skin irritation. As with all chemicals, wear splash resistant goggles, protective gloves and clothing when applying Guard Cote. In case of skin or eye contact, immediately flush area with clean water. Consult Safety Data Sheet for more information on safety and handling.

LIMITATIONS

Guard Cote must be applied only when ambient and pavement temperatures are a minimum of 60° F and are expected to remain there for at least twenty-four (24) hours after sealer application.

Guard Cote must be applied to surfaces that are dry and free from subsurface moisture. Guard Cote must not be applied during rainy or wet conditions such as foggy or overcast days with high relative humidity or when rain is predicted within twenty-four (24) hours after sealer application.

LIMITED WARRANTY

The Brewer Company warrants this product to be of merchantable quality when stored, used and applied in accordance with the specifications and instructions on the product label and herein. This limited warranty represents the sole and exclusive warranty. The Brewer Company's liability under this limited warranty is limited to replacement of the product proven defective or, at its option, refund of the selling price.

MIX DESIGNS

Areas of Use	No. of Coats	Guard Cote Gals.	Water Gals.	Aggregate Lbs.	Additive Gals.
Pedestrian Only (playgrounds)	1st coat	100	35-40	0-200	0-2
	2nd coat	100	35-40	0-200	0-2
Low Traffic (residential driveways)	1st coat	100	30-35	0-200	0-2
	2nd coat	100	30-35	100-200	0-2
	1st coat	100	30-35	0-200	0-2
Moderate Traffic (parking areas)	2nd coat	100	30-35	100-200	0-2
	1st coat	100	25-35	100-300	0-2
High Traffic (drive lanes)	2nd coat	100	25-35	100-300	0-2
	1st coat	100	25-30	0-400	0-2
	2nd coat	100	25-30	100-400	0-2
	3rd coat	100	30-35	100-400	0-2

Quality Sealer Production – Colloid Mill vs. Batch Processing

One of the most important measures of quality for any emulsion based pavement sealer is the size and distribution of resin particles. This is true for refined tar, petroleum resin or asphalt based sealers. Ideally, resin particles should be between 3 and 10 microns in size and evenly distributed throughout the emulsion. The individual particles of resin should not coalesce (stick together) until water begins evaporating after application.

Small size and even distribution of these particles assures the applicator consistent viscosity (thickness) during dilution and application, especially with latex additives. Small, evenly dispersed resin particles also assures that the coating is most effectively able to adhere to the pavement surface, uniformly coat the aggregate and form a dense, waterproof film. These characteristics are critical to wear resistance, particularly when the surface is wet. Optimal particle size for resins in clay stabilized emulsion systems like pavement sealer is 3 to 10 microns.

It takes both mechanical and chemical energy to tear hard, sticky resins into such small particles and to keep them from sticking together before application. Chemical emulsifiers are used in both batch mixing and continuous process colloid mill production methods. Emulsifiers do aid, somewhat, in breaking down resin particle size, but their primary function is to keep the particles separated from one another in the finished emulsion.

The manufacturing method, and the mechanical energy it generates, is the greatest factor in achieving small, evenly distributed resin particle size. A colloid mill consists of a series of stationary, grooved chambers called stators. A series of heavy, sharp edged rotors turn within the stators at very close tolerance and very high speed, typically close to 2,000 rpm. The resin and other components of emulsion sealer are forced through the mill under pressure. This imparts tremendous mechanical energy, resulting continuously in a finished product with 100% of resin particles evenly dispersed and well within the 3 to 10 micron desired range for size. Batch mixing utilizes sets of paddles which stir the contents of a vertical or horizontal mixing tank at relatively low speed. It is a low shear process which does not generate sufficient mechanical energy to achieve the same result.

The Brewer Company uses only colloid mills to produce all of our pavement sealers. These mills are inspected, serviced and rebuilt on a regular basis. Combined with strict standards for quality assurance, rigidly adhered to, you can count on Brewer for the highest possible quality pavement sealer.