



TECHNICAL DATA SHEET

STEELGUARD

A single package, water dispersed polymer modified, slate and mineral filled, black, asphalt coating. The product, following minimal dilution with potable water, may be easily applied by squeegee or spray applied with proper, heavy duty commercial equipment. It is designed to restore minor pavement surface profile loss; and to professionally seal all asphalt surfaces against accelerated deterioration from sun, wind, rain, tire abrasion and mild chemical attack.

Available in 5 and 55 gallon containers; and in bulk.

ADVANTAGES:

- May be applied above 50°F (10°C) and rising on most dry or slightly damp surfaces. (May be applied in cooler temperatures with the use of fast drying additives or under favorable conditions - See "Drying").
- SteelGuard provides excellent coverage with a higher film thickness per coat due to higher aggregate/binder content. Helps fill minor surface (non-working) cracks in the pavement to eliminate water penetration.
- SteelGuard provides excellent adhesion.
- Excellent curing properties under normal conditions. Assists in nighttime installations without direct sun loading. Quick-setting additives are available for more challenging installations.
- Will resist re-emulsification once fully cured. Traffic striping immediately after curing may be achieved without discoloration.
- Resistant to tire scuff and power steering abuse.
- Contains no bio-accumulative metals or chemicals. Non-hazardous in cured form; therefore, may be disposed as cured residue into any municipal land fill.

USES:

- Designed for application as a professional protective coating of asphalt pavements including driveways, playgrounds, parking lots, bike paths, surface streets, highways and airport taxiways and runways.
- Available in modified forms for various color applications, skid resistant requirements or for applications in demanding situations or on alternative surface materials.

APPLICATION:

Apply only onto clean, dry or damp surfaces from which all contaminants have been removed; i.e. built-up crankcase drippings, oil spots, loose traffic paint, etc. Areas upon which a high build-up of grease or loose paint exists shall be scraped, wire brushed and cleaned to eliminate oil residue from the underlying, sound asphaltic substrate. Prior to application it is recommended that these treated areas be further prepared by surface priming with an approved Oil Spot Treatment.

SteelGuard may be modified for special applications with a variety of polymers, adhesion packages, set control additives and select size aggregates for friction/skid promotion. Please contact your supplier for details.

SHIPPING INFORMATION:

CONTAINER SIZE	UNITS PER PALLET	CUBIC FT PER PALLET	WEIGHT PER PALLET	PALLETS PER 48' TRAILER
5 Gallon Pails	32	50	~ 1950	18
55 Gallon Drums	4	58	~ 2500	20

PHYSICAL PROPERTIES:

Water Absorption	< 1%	ASTM D-570
Weight per gallon	10.5 – 11.5 lbs/gallon	ASTM D-1475
Percent Solids	57 - 62	
Wet Track Abrasion	<35 grams / s.f.	ISSA A-105, T-100
VOC	< 10 grams / liter	BAAQMD Vol 3 Lab 22

SteelGuard contains 4.5 pounds of crushed aggregate, or more, per gallon and is supplied in a high viscosity, semi-paste consistency. The formula is balanced to provide suspension of the aggregate particles but stirring or mixing should be done prior to use to assure a balanced mix.

Immediately prior to application a pre-determined, small quantity of potable water shall be slowly mixed into the contents at an equivalent rate of one to five percent by volume (1 – 5% under normal conditions; up to as much as 10% under very hot conditions) of the **SteelGuard**.

Do not over dilute this product as this will terminate the anti-settling qualities of the **SteelGuard** and could possibly diminish the useful qualities of its cured physical properties.

DRYING: **SteelGuard** is one of the fastest curing pavement surfacing materials available. However, all waterborne curing rates are dependent upon evaporation of the water contained within the formula. The combined effects of surface temperature, air temperature, sun load, wind and humidity will determine the atmospheric water removal capabilities at any given moment. The professional installer will gain valuable experience in gauging time-to-cure by observing cure times against spread rates within the range of these five indicators.

Do not apply this product unless sufficient weather conditions exist to assure full cure prior to being subjected to rain, fog or other inclement weather or heavy traffic.

It is recommended that the inexperienced applicator use spread rates of 20 gallons per 1000 square foot, during daylight hours, at surface and air temperatures above 55° F (13°C) and rising with no rain, fog or other inclement weather in the forecast for at least 24 hours.

Immediately after application, clean implements, including hoses, with cool water after application. **SteelGuard** may crosslink & cure if left standing in sun exposed spray hoses.

TRANSPORTATION, STORAGE AND HANDLING:

- DOT: not regulated
- Keep/store out of direct sunlight.
- Do not allow to freeze prior to application.
- Do not mix with any other products.
- Keep containers tightly sealed when not in use.
- Avoid prolonged skin contact.
- Do not take internally. Do not induce vomiting if swallowed - call a physician immediately.
- Store, handle and dispose per MSDS requirements.