

Technical Data Sheet

MowerGUARD Aerosol

Fast Drying, Dry Film Graphite Lubricant
From the makers of SLIP Plate® Brand of Graphite Products



Product Description:


This product is designed specifically for lawn maintenance equipment using SLIP Plate® dry film graphite technology. This **Superior Solution** produces a slick and durable barrier on the lawnmower deck that reduces sliding friction and significantly reduces grass-clipping buildup that can lead to premature wear. As a part of a regular maintenance schedule this product will extend the life of equipment and help reduce maintenance costs, saving time and money.

Advantages:

- Saves time and money by reducing corrosion build-up and clogged mowers
- Allows mower to run more efficiently
- Creates a smooth even surface
- Easy to apply, aerosol spray formulation for large areas
- Fast drying; tack-free in less than 15 minutes at room temperature
- Engineered with unique dry film graphite technology
- Creates a slick, non-stick surface, ideal for build-up areas
- Reduces mechanical wear and can extend operating life of products
- Will not attract or trap dirt, dust or grit
- Graphite is a natural, environmentally friendly mineral lubricant
- Molecularly bonds graphite to the metal surface

Limitations:

- Not recommended for use on new lawn mowers with enamel and powdered coated surfaces as it will limit the bonding strength of the coating
- Coated surfaces should be allowed to dry completely prior to use.
- Bonding agents and graphite will begin to oxidize at temperatures above 450°F/232°C, and this coating is not recommended for high temperature applications.
- Do not use any grease, oil, or other petroleum product on top of this coating, as it may deteriorate the effectiveness of the graphite.
- Keep away from electrical contacts and sensitive electrical equipment as the graphite powder may cause a short-circuiting effect.
- Keep away from light colored clothing and fabric.

***If it needs to slide, roll, turn, twist, or spin
– it's a job for*** 

SUPERIOR  GRAPHITE


Information provided on this Technical Data Sheet is supplied to indicate the physical and chemical properties of the material. This information is believed to be correct. However, no warranty is made, either expressed or implied regarding the accuracy of the results obtained from the use of this product. Customers are strongly encouraged to test the materials independently prior to application/purchase.

Preparation:

- **Thoroughly mix and agitate can prior to use:** It is important the can be properly agitated for 1-2 minutes with the mixing balls inside rattling. This makes sure the optimal coating is produced when sprayed.
- **Perform a test spray prior to use:** To ensure that the product is properly mixed, spray the product on a test surface and inspect for consistency. If the product does not appear consistent, agitate the can more until the product is mixed.
- **Insert attached spraying stry to nozzle prior to use.** Attach the straw to the nozzle to allow for directed, powerful spraying to the desired location. This allows graphite to be placed right where it is needed
- **Initial surface preparation.** Remove any loose debris, mud, loose paint, rust or grit as best as possible with compressed air or small brush.
- **Prepare your surface.** The most important part of the coating process is proper surface preparation. Remove any loose debris, mud, loose paint, rust or grit by high pressure water cleaning and/or use of a grinding or wire brush. If there are any residual petroleum or grease lubricants from previous applications, remove with a solvent such as aerosol brake cleaner.

Product Characteristics:

Physical Properties	Typical Range
Carrier	Solvent
Color	Light Grey
Fluid Consistency	Thin
Measured Viscosity, (centipoises)	< 500
Flash Point Temperature	NA
Dry Time (tack-free), (min)	30-45 @ 70°F/21°C
Dry Time (complete), (min)	90-120 @ 70°F/21°C
Average Application Coverage, (ft ² /can)	Varies depending on use 6oz = Up to 24 mower deck
Effective Temperature Range, (Minimum)	32°F/0°C
Effective Temperature Range, (Maximum)	200°F/93°C
Suggested Application Ambient Temperature Range	50 - 100°F (10 - 38°C)
Suggested Dilution Ratio	Not Recommended - Ready For Use
Suggested Dilutant/Cleaner	Mineral Spirits or VM&P Naphtha
Shelf life under original seal	Unlimited under original seal

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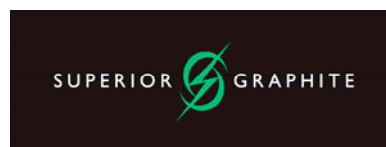
Storage and Handling Information:

- Store away from excessive heat and in original packaging.
- Material is black, or silver-grey in some instances, and these color variations are normal. Keep away from light colored clothing.
- Graphite is electrically conductive and may lead to electrical shorts and damage. Please be careful working with this product around electricity or sensitive electrical equipment.

Consult **MSDS** for information on disposal of unused materials, and safe handling practices.

ORDERING/SHIPPING INFORMATION	
AVAILABLE PACKAGING (product ordering code)	12-6oz Cans: 36002
CASE SHIPPING WEIGHT (kilograms)	12-6oz: 8LB (3.6)

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Plate!



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Frequently Asked Questions:

What is MowerGUARD?

MowerGUARD™ is a NEW, easy to use product designed for lawn mowers, garden tools and other lawn maintenance equipment. It uses SLIP Plate® technology, providing a reduction in the build-up from dirt, grit and grass normally found on mowing equipment. Using a natural mineral, graphite, it creates a barrier that is hydrophobic, and will reduce grass, which is 85% water, from sticking to it. It is also a dry film, that will not wash away, drip or cause harm to landscaping vegetation, or slick spots on your driveway as happens with wet lubricants that petroleum based.



Any precautions when applying MowerGUARD™?

Before you begin working on the lawn mower, Disconnect the spark plug cable from the spark plug and secure it so it cannot come contact with the spark plug. This will prevent the motor from accidentally starting while you work on the lawn mower. Additionally, use Eye Protection when cleaning the mower deck and using the cleaning tool! Very Important! Review the information on the packaging for further handling and application instructions.

Type of Graphite used?

MowerGUARD™ uses a proprietary graphite powder that has been specifically sized to evenly distribute when sprayed and to be able to fill-in the natural grooves on the metal surface. The graphite type is proprietary.

How do I apply MowerGUARD?

(See instructional video - [Click Here](#))

How much does a can cover?

A 12 oz can of MowerGUARD™ will easily cover a typical mower deck of 21" diameter. You may need more than one can for a larger deck.

How long does MowerGUARD™ last?

MowerGUARD™ has been shown in field tests to last between 10-15 mowing hours before it will need to be touched up with a quick coating. We recommend that every month the consumer check the bottom of the mower deck and if they notice an area that is wearing more than others to lightly clean off the area with steel wool or brillo pad, and reapply MowerGUARD to that area. Some grass will begin to lightly accumulate as the coating wears down, but a quick rinse with a garden hose or pressure washer will easily remove this grass. No need to use a scraper.

Protective gear when coating?

It is recommended that vinyl or latex gloves be worn when applying MowerGUARD™ to prevent it from getting on the person's hands. Spray the material in a well-ventilated area (outdoors) and away from anything that you do not want to have a thin coating of graphite on. We suggest using a spray-painting mask when applying MowerGUARD. Keep the product away from sparks, open flames and very hot surfaces to prevent fires and explosions, as the carrier is highly flammable.

When using the grinding wire wheel or wire brush to clean the mower for the first time, **protective eye gear is required!**

How do I clean up MowerGUARD?

MowerGUARD™ can be cleaned up using Mineral Spirits, VM&P Naphtha, or Paint Remover. It is recommended that the owner make sure these cleaning solvents will not damage the surface.

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How long does MowerGUARD need to dry prior to use?

For the optimum coating, the recommended dry time for MowerGUARD™ is 24 Hours at 70 deg F. If weather conditions are cooler, you may want to let the product dry longer. The product though will be dry to the touch in about 30-60 minutes at 70 Deg F, and you can begin mowing afterwards, though the coating will not be as durable and recoating will be required at a quicker rate. The longer the MowerGUARD is allowed to dry, the better it sets up, thus lasting longer.

How clean does the mower deck need to be prior to applying MowerGUARD?

The cleaner to bare metal the better. MowerGUARD™ coating is designed to adhere optimally to a porous, or rough surface, as these surfaces have a high surface area. On NEW lawn mowers, you may need to wait for the thin, factory coating to wear off after a month or so prior to using MowerGUARD. You can still use MowerGUARD on a new lawnmower, but the surface needs to be roughed up with a wire brush or wire-grinding wheel. On older mowers, you want to remove as much grass and dirt as possible. Using a high-pressure washer prior to scrapping and cleaning up the deck surface helps reduce cleaning time.

Will MowerGUARD™ have adverse affects on my lawn mowing equipment?

No. MowerGUARD™ is a dry, chemically inert, graphite undercoating. This unique layer of protection on your mower deck, prevents the build up of grass clippings, dirt and debris, that will reduce the mowers power and efficiency. Built up grass can increase the torque on the motor, and may reduce the life of the mower. MowerGUARD can also reduce gas consumption and emissions as the mower will not have to work as hard to cut the lawn.

Will MowerGUARD™ affect my lawn or landscaping?

No. Graphite is a natural, mineral and will not harm plants, shrubs, trees or your lawn. Graphite is a form of carbon and is naturally found in throughout the world. You may be familiar with graphite in pencils. MowerGUARD™ is a dry film coating, meaning it will **never drip or run** in warm weather as will vegetable oil, greases and other petroleum based lubricants. It will also not wash away when you rinse off your lawn mower or garden tools.

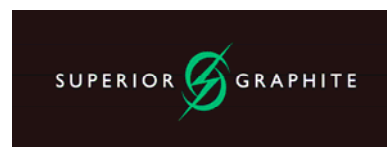
Can I use MowerGUARD™ on my garden tools?

Yes. MowerGUARD™ is excellent for rakes, spades, shovels, hoes, bulb planting tools, hand tools, posthole diggers, pitchforks, wheel barrows (metal only), metal bins, metal trashcans, compost bins, and tillers. The graphite coating will make it easier to work in heavy clay and wet soil, preventing the tool from sticking. It will also prevent buildup of debris, and will help pro long the life of your tools. Apply by cleaning the tool as close to bare metal as possible, and apply. Allow the coating to dry for at least 6 hours (24 hours recommended) and then they will be ready for use. Rinse your tools after each use, and re-apply MowerGUARD as needed.

My lawnmower deck is made of plastic; will MowerGUARD™ work?

Maybe. MowerGUARD™ is designed to adhere to metal surfaces. These surfaces have natural porosity, and allow the graphite particles and bonding agents to adhere as designed. Plastics are not as porous, and will not allow the coating to bond as designed. You can use MowerGUARD on these types of lawn mowers, but the durability will not be as good.

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