

SERVICE BULLETIN



SB-18-011

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Scharpf Product Information SG-500B & SG-500G Undercoating on Utility Trailers

The accompanying product bulletin from Scharpf provides valuable information about the composition of the product, as well as, **application and maintenance** recommendations for the proper use of the product.

The Scharpf undercoating product can be ordered as a 12oz aerosol can (case of 12) in two colors: black and grey. Please order through your local Utility dealership and reference part number SF-400B for black or SF-400G for grey.

Any other questions regarding this service bulletin should be directed to Utility's Field Service Department at 800-423-6591.

Field Service Department
UTILITY TRAILER MANUFACTURING COMPANY

Attached: Scharpf Product Information 3 pages

Utility hasn't independently evaluated the information contained in the attached technical bulletin; it is making the bulletin available as a convenience and for information purposes. You are encouraged to contact The Scharpf Group at (920) 233-7146 if you have any questions concerning the content of the document, or how these issues affect trailers you are servicing.



PRODUCT INFORMATION

SG-500B & SG-500G Corrosion Preventive Compounds

Composition and Formulation: The inorganic-organic complex on which SG-500 is based is both platelet and polar in character. The platelet structure increases the path length of oxygen and water, which are both necessary for corrosion to reach a metal substrate. The hydrocarbon “tails” create an environment that is hydrophobic, further lowering water transmission. In addition, the over-based calcium sulfonate/carbonate complex has a solubility in water of 1×10^6 . This low solubility in water is enough to create a buffered pH of about 10.1, which is too basic for any active corrosion to take place.

Possibly the greatest strength of SG-500 is its high affinity for the metal surface, allowing SG-500 to be applied over very lightly rusted surfaces with only minimal preparation (see “surface preparation” section). The affinity of SG-500 for metal is greater than that of water, allowing sulfonates to impart water displacement properties. This metal attraction allows SG-500 to resist undercutting (corrosion under the film) in areas where damage has occurred to the coating. SG-500 exhibits the ability to heal, or “re-seal,” itself in areas of limited damage.

SG-500 is thixotropic and resistant to sag, run-off and flow, particularly at high film thickness (25 MILS) and temperatures. This property assures thermal stability and low embrittlement with aging.

Features:	<ul style="list-style-type: none"> • Low V. O. C. • Soft, pliable, tack-free, self-healing waxy film • 60 - 65% solids by weight
Freight Classification:	Combustible Liquid, N.O.S., DOT ID # NA1993
Colors:	SG-500B (black) SG-500G (gray)
<u>TYPICAL DATA</u>	
Weight per U. S. gallon:	6.00 lb. @ 60° F
Flash Point, PMCC:	105°F
Non-volatile, weight:	60-65%
Non-volatile, volume:	60-65%
V.O.C. (maximum):	2.4-2.8 pounds per US gallon
Recommended film thickness:	7-8 MILS. wet; 4-5 MILS. Dry

APPLICATION

SURFACE PREPARATION:

- Better surface preparation yields better long-term performance. While SG-500 is tolerant of poor surface preparation, it performs best when applied to a clean, dry surface.
- At the very least, the surface of the item to be coated should be scraped or wire brushed to remove all loose dirt, rust, old or flaking paint, or any other coating system.
- SG-500 should never be applied over a coating or paint that is losing adhesion and flaking.
- Blast cleaning may be necessary to remove old coatings and paints.
- If the surface of the item to be coated has been exposed to salt water, rinse it well with fresh water to remove salt.
- Grease and oil should be removed from the surface with solvent or a strong detergent.
- *Always allow surface to dry before coating.*
- Special challenges occur if the surface of the item to be coated is rough. High spots protrude and will have less coating on them than low spots. If the surface is rough or has pits, smooth the surface by blast cleaning or apply to a heavier thickness (12-15 MILS).

APPLICATION METHOD:

- Prepare surface as described in section above.
- To apply, use Aerosol Cans from Utility Trailer After-Market, in bulk use an airless spray system with a .017 to .021 spray tip.
- SG-500 may be brushed on or dipped, although airless spray is the recommended application method.
- Regardless of application method, recommended film thickness is 7-8 MILS wet, which will dry to 4-5 MILS.

MAINTENANCE

Cleaning:

- Pressure wash at a distance of no closer than one foot from the surface.
 - ***Do not steam clean.***
 - ***Do not use high pressure hot water.***
 - ***Do not pressure wash closer than one foot from the surface.***

MAINTENANCE (continued)

Touch Up:

- From time to time touch up may be required, when touching up, follow the instructions for “re-application.”

Cleaning for “re-application” with the same product, SG-500:

SG-500 is made to adhere permanently to a surface; it is not designed for easy removal.

- To re-apply SG-500, the existing top-layer must first be cleaned in one of three ways:
 1. pressure washing,
 2. steam cleaning,
 3. high-pressure hot water washing.
 - **Abrasive blast cleaning will NOT work.**
- Once the top layer has been cleaned, apply as described in “application method” section on previous page.

Removal for re-coat with conventional painting systems:

SG-500 is designed to permanently adhere to a surface, so there is no assurance of 100% removal.

- To re-coat with paint, remove the bulk of the product in one of three ways:
 1. very close pressure washing,
 2. steam cleaning,
 3. high-pressure hot water washing.
- After removal of the bulk of the product, a very thin, waxy film will remain on the surface which may be removed with a solvent, or by abrasive blasting followed by a solvent wash.

CAUTIONS:

As the bulk of material is removed from the surface being cleaned, it will adhere to any surface upon which it falls. Be careful to control where this material lands.

- ***Material will adhere to a shop floor.***
- ***Material will clog sewer drains.***
- ***Wherever the product lands, it will have to be removed as listed in “removal for re-coat with conventional painting systems” section.***

Material must be disposed of in a manner that complies with Local, State and Federal regulations.

If abrasive blast cleaning is used as a removal method, do not recycle the blasting media as it will be contaminated with a waxy residue. Residue on recycled media will be re-deposited on anything blasted with it, causing “fish eye” paint problems.