



# Product Technical Bulletin

Fleet, Farm, Heavy Equipment & Industrial Maintenance Finishes

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## Rust Preventive Paint **CHASSIS SAVER™** Truck & Auto Underbody Coating

- Single component - No hardener or catalyst required
- Minimal surface preparation using only a wire brush
- Apply directly over tight rust or sand blasted metal
- Penetrates rust and mechanically bonds to surfaces
- Isolates metal locking out oxygen and moisture
- No primers or expensive topcoats required
- Won't crack, chip, flake or peel
- Unaffected by road salt, acids, gasoline, diesel fuel, corrosives, solvents or chemicals
- Field tested & proven over 15 years in heavy truck and commercial fleet refinish markets



**STOPS RUST PERMANENTLY!**

### Product Description

CHASSIS SAVER™ is a high solids, VOC compliant, single component chassis paint and underbody coating formulated to permanently stop automotive and truck corrosion without the use of primers or topcoats. Chassis Saver's unique "RUST STOPPING" properties permit its application directly over tightly adhered rust after only marginal surface preparation using a wire brush and/or hand scraper to remove loose rust and scale. Optimum results can be achieved by sandblasting a medium blast profile to surfaces. Chassis Saver bonds to blasted and rusty metal to form a rock hard yet flexible, glaze-like, non-porous finish that won't crack, chip, flake or peel. It works by isolating metal from oxygen and moisture, and without these factors present - **RUST STOPS, Dead in its tracks!** Chassis Saver cures by reacting with atmospheric moisture and its cured film resembles that of a powder coating or a baked-on finish yet no heat or hardeners are used. Chassis Saver is completely unaffected by road salt, gasoline, diesel fuel, oils, battery acids, hydraulic fluids, solvents, chemicals, or corrosives.

**NOTE:** Chassis Saver is not intended as a "cosmetic" coating for finishing applications. It is sensitive to direct UV (sunlight) and its initial appearance will change over time. Its "RUST STOPPING" properties and corrosion resistance will never degrade but its color will shift from black to charcoal gray. Silver-Aluminum will retain most of its original look. If aesthetics are important, Chassis Saver can and should be top coated with a quality industrial or automotive finish. Any opaque finish is effective. Clear coating is not recommended as protection. See the Technical Data section on the reverse side for "Suitable Top Coats".

**IMPORTANT:** Before opening package, read all warnings. Follow all precautions. Never open a can of Chassis Saver until you are ready to paint.

### Surface Preparation & Application

**GENERAL SURFACE PREP:** If dirt, grease or oils are present, clean surfaces using a quality commercial water base degreaser. For heavy build-up of grease, oil or road tar, scrape or wire brush excess material prior to degreasing. Allow surfaces to dry thoroughly.

**RUSTED SURFACES:** Remove loose rust and scale using a stiff wire brush, by grinding, or hand tool cleaning. Remove all loose, peeling or bubbling paint. **NOTE:** Chassis Saver works best over rust. Do not over remove rust. Chassis Saver needs to "bite" into a rough, rusty or well

scratched surfaces for proper adhesion. Use of "rust converter" products should be avoided as they may affect bonding of Chassis Saver to metal.

**BARE, SMOOTH METAL:** Clean, smooth or new metal surfaces must be roughened prior to coating. Sandblasting is recommended but manual sanding with 60 or 80 grit sandpaper is also acceptable. When blasting, provide a medium to coarse profile for optimum adhesion. Avoid the use of glass, plastic or walnut shell blast media as they leave surfaces too smooth.

**ALUMINUM:** Chassis Saver does not adhere well to bare aluminum. Prime with a quality 2K epoxy primer or 2K self etching primer. Do not use 1K self etch primers. It is advisable to do a test area first to check adhesion.

**PREVIOUSLY PAINTED SURFACES:** Old painted surfaces in sound condition should be thoroughly sanded using a 120 to 180 grit sandpaper to remove all traces of gloss.

**GENERAL MIXING & HANDLING:** Loosen closure carefully; container may be under slight pressure. Stir liquid gently until uniformly mixed. If can has been shaken, allow to sit 60 minutes before opening. Never work directly from the Chassis Saver can unless the entire contents will be used in a single painting session. Using small paper cups or coffee scoop, withdraw only enough material from original container for use in one application. After withdrawal, gently pour a small amount of Magnet S8 Reducer (just enough to cover surface of paint) over the remaining portion of Chassis Saver in the original can. **DO NOT** mix this solvent into the Chassis Saver. Let it remain on top until you are ready to use the product again. This procedure is called a "solvent float" and will prevent air from coming in contact with the material which will cause premature spoilage. **NOTE:** Chassis Saver will glue steel together including the lid to its own can. Reseal can immediately by draping plastic food wrap across the open can before pounding lid back on. Material withdrawn from original container should be stored separately and used promptly. **NEVER RETURN ANY UNUSED PORTION OF MATERIAL TO THE ORIGINAL CONTAINER.** Never allow can to sit opened when not in use. Keep containers tightly closed to prevent contact with moisture vapor which will shorten shelf life and cause thickening and gelling. Refrigeration of unused portion will help extend shelf life.

**GENERAL APPLICATION & REDUCING:** Surfaces must be free from oil, dirt, grease and other contaminants. To avoid surface defects, bubbling and/or blistering, metal must be

completely free from all moisture prior to coating application. Apply a minimum of 2 coats and up to 4 coats for maximum protection. Allow 3 to 8 hours between coats depending on temperature and humidity. Each coat should be dry to touch with no tackiness before applying next coat. Chassis Saver is a moisture cure finish which when applied too heavily will have a tendency to bubble while curing. Avoid bubbling by applying thin coats only. Higher temperature and humidity will shorten drying time. Low temperature and humidity will lengthen dry.

**Do not apply Chassis Saver if atmospheric temperature is below 50°F. Do not rush to apply coats faster than recommended. Never use lacquer thinner as a reducer for Chassis Saver or to wipe surfaces prior to painting.**

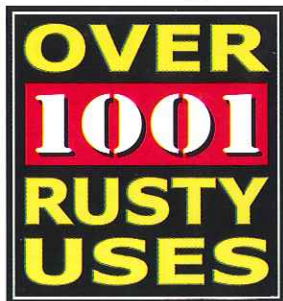
**BRUSH APPLICATION:** If brush drag is present or for better flow and leveling, add up to 10% MAGNET S8 Reducer. Apply thin, even coats using an inexpensive nylon brush.

**SPRAY APPLICATION:** All other coatings, lacquer thinner or alcohol containing solvents must be thoroughly flushed from spray guns and hoses prior to spray application of Chassis Saver. A final flush using Magnet S8 Reducer or xylene helps avoid unexpected results. Reduce up to 15% using S8 Reducer. Apply medium-wet coats while maintaining a gun distance of 12 to 14 inches. Spray tip size should be: .013 to .017, HVLP cup pressure: 6 to 8 psi.

**EXTENDED RECOAT:** For films cured over 24 hours, sand using 400-grit abrasive to remove gloss before recoating.

**CLEAN-UP:** Clean tools and equipment immediately with S8 Reducer or xylene. Do not leave material in spray guns, pressure pots or hoses. If allowed to harden on equipment, use industrial paint stripper for clean-up.

**SUCCESSFULLY STOPPING RUST:** Check carefully when coating rougher rusted surfaces that you apply enough coats to sufficiently cover high spots and peaks of rust. Moisture will find even the smallest pinholes not fully covered which becomes the most common cause for failure and re-rusting or rust bleeding back through the coating.



# CHASSIS SAVER™ Truck & Auto Underbody Coating Stops Rust Permanently!

Choose from 5 available finishes **Paint Directly Over Rust**



## What's correct for your application?

**UCP99 Gloss Black** – As a primer or finish coat, Chassis Saver has become the industry standard for high performance protection on all underbody surfaces including frames, floor boards, engine compartments, trunk areas and under fenders. The #1 choice for fleet maintenance at hundreds of public works facilities, DOT shops, truck maintenance and fleet refinishing shops nationwide. Extensively used on snow and ice removal equipment saving thousands of dollars in costly repairs.

**UCP970 Antique-Satin Black** – For factory original restorations on all underbody and engine compartment surfaces. Cures to a silky smooth sheen. Use silver-aluminum as a base coat/primer.

**UCP934 Silver-Aluminum** – Used as a pre-primer under gloss or antique-satin black. Heavily filled with over two pounds per gallon of flake aluminum to help smooth and fill pits and deeper rust damage. Interleaving flake creates an incredibly dense barrier to prevent moisture permeation. Commonly used for marine barge and oil field maintenance. Great for metal roofs, steel truck rims and to rejuvenate tired, rusting chain link fence.

**UCP98 Floor & Machine Gray** – The ultimate machinery refinishing coating and for heavy duty protection of interior industrial concrete floors. Coatings can be applied with surface temps as low as 36° F.

**UCP92 Clear** – Used as a pre-primer on smooth tight rust. Penetrates and displaces oxygen to stop further rusting. Makes an unbelievable concrete sealer for warehouses, garages or work shops.

## Other suggested uses...

Chassis Saver is not limited to automotive or industrial rust control and has found literally thousands of rusty uses such as heavy equipment, truck beds, snow plows, mower decks, tractors and other farm machinery, oil field equipment, boat trailers, buses, military vehicles, dumpsters, roll offs, fork lifts, propane tanks, truck bodies, storage tanks, structural steel, pipes, iron works, gates, fence posts, chain link, steel truck rims, metal roofs, sheds, and concrete floors.



Chassis Saver is approved by the U.S. Military for "Vehicle life expectancy extension by reducing severe corrosion".

The Ohio DOT says: "Despite the highly corrosive situation caused by salt and liquid calcium chloride, Chassis Saver has reduced by 50 percent the amount of refinishing we have had to do on our snow and ice removal vehicles".

## PROTECT YOUR SKIN! WEAR GLOVES DURING USE



Skin contact is not harmful but should be avoided. To prevent temporary staining, remove from skin at once using S8 Reducer or lacquer thinner then wash immediately with soap and water. Do not attempt to remove dried Chassis Saver from skin with solvent; soak in warm, soapy water. Once product has stained skin, only time will remove it. Barrier creams are not recommended where it is possible to cover with protective clothing. Use vinyl or nitrile gloves. Latex is not recommended.

## Health & Safety Data

**IMPORTANT:** Spray equipment must be handled with due care and in accordance with manufacturer's recommendations. Spraying any material can be hazardous. Wear respirator, eye protection and protective clothing. This material requires all cautions for spraying isocyanates.

**DO NOT USE IF YOU HAVE CHRONIC (LONG-TERM) LUNG OR BREATHING PROBLEMS OR IF YOU HAVE EVER HAD A REACTION TO ISOCYANATES. USE ONLY WITH ADEQUATE VENTILATION. WHERE OVER SPRAY IS PRESENT, USE A POSITIVE PRESSURE, AIR SUPPLIED RESPIRATOR (NIOSH/MSHA TC-19C), EYE PROTECTION, GLOVES AND PROTECTIVE CLOTHING DURING THE WHOLE TIME OF SPRAY APPLICATION OR USE AND UNTIL ALL VAPORS AND SPRAY MIST ARE EXHAUSTED OR GONE. FOLLOW RESPIRATOR MANUFACTURER'S DIRECTIONS FOR RESPIRATOR USE. DO NOT PERMIT ANYONE WITHOUT PROTECTION IN THE PAINTING AREA.**

## KEEP OUT OF THE REACH OF CHILDREN DO NOT TAKE INTERNALLY

WEAR A PROPERLY FITTED VAPOR/PARTICULATE RESPIRATOR approved by NIOSH/MSHA for use with paints (TC-23C), eye protection, gloves and protective clothing during application and until all vapors and spray mist are exhausted. In confined spaces or in situations where continuous spray operations are typical, or if proper respirator fit is not possible, wear positive-pressure, supplied-air respirator (NIOSH/MSHA TC-19C). In all cases, follow manufacturer's directions for respirator use. Do not permit anyone without protection in the painting area.

**NOTICE:** Repeated and prolonged overexposure to solvents may lead to permanent brain and nervous system damage. Eye watering, headaches, nausea, dizziness and loss of coordination are signs that solvent levels are too high. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. Do not breathe vapors or spray mist. Do not get in eyes or on skin. Keep away from heat, sparks and flame. During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition. Do not transfer contents to bottles or other unlabeled containers for storage. Close container after each use. Use only with adequate ventilation. Wash hands after using.

**IN CASE OF FIRE:** Use dry chemical, carbon dioxide or water spray fog. Closed containers may rupture or explode when heated. Keep cool with water spray.

**FIRST AID:** If affected by inhalation of vapor or spray mist, remove to fresh air. If breathing difficulty persists, or occurs later, consult a physician. In case of eye contact, flush eyes immediately with large amounts of water for at least 15 minutes and call a Physician. In case of skin contact, remove promptly by wiping, followed by waterless hand cleaner and soap and water. If irritation persists, see a physician. If swallowed, CALL A POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN IMMEDIATELY; have label information available. DO NOT induce vomiting. Remove and discard contaminated shoes and clothing or laundry before reuse.

**SPILL/WASTE:** Remove all sources of ignition. Ventilate area and remove spilled material with inert absorbent. Dispose of contaminated material and/or unused contents in accordance with local, state and federal regulations. Careless disposal of any product is not environmentally responsible. Call your local sanitation department for aid in disposing of unwanted product in your area or call the Environmental Protection Agency Solvent and Hazardous Waste Hotline at 1-800-424-9346. Do not smoke on the ground or in local sewer or discharge system.

For further information, please refer to Material Safety Data Sheet available online at [www.magnetpaints.com/msdstech.asp](http://www.magnetpaints.com/msdstech.asp)

## CHASSIS SAVER™ has proven itself under the harshest road conditions that exist

More than 750 townships, public works departments and local DOT fleet maintenance facilities use Chassis Saver for routine protection of snow and ice removal equipment, highway and off road trucks, construction equipment and general vehicle maintenance.

## Technical Data & Specifications

**Color & Finish:** #99 Gloss Black, #934 Antique-Satin Black, #934 Silver-Aluminum, #98 Floor & Machine Gray, #92 Clear  
**Vehicle Type:** Moisture curing polyurethane

**Pigment Type (varies by color):** Carbon black, aluminum acetate, titanium dioxide, proprietary anti-corrosive compounds

**Solvent Type:** Aromatic naphtha, 1-methoxy-2-propanol acetate

**Viscosity at 75°F (24°C):** 65 - 75 KU (400 - 700 centipoise)

**Flash Point:** 108°F (42°C) T.C.C. (Ships UPS Ground, NON-Hazmat)

**Solids by Weight:** 77%

**Solids by Volume:** 71%

**Weight Per Gallon (varies by color):** 8.7 - 10.5 lbs.

**VOC:** Maximum 2.09 lbs per gallon of coating. (250 GPL)

**Application:** Brush, HVLP spray, low nap phenolic core roller

**Number of Coats Required:** Minimum 2, up to 4

**Recommended Dry Film Thickness:** 4 to 8 mils total

**\*Coverage:** 350 to 400 sq. ft. per gallon, 88 to 100 sq. ft. per quart, 22 to 28 sq. ft. per 1/2 pint. \*Coverage will vary depending on surface profile, application technique and porosity of substrate. Material losses during mixing and application will vary and must be taken into consideration when estimating job requirements.

**Dry Time at 75°F (24°C):** To touch: 3 to 4 hours, Tack free: 5 to 6 hours, Mar free: 6 to 10 hours, Full cure: 24 to 48 hours

**Time to Recoat:** 3 hrs minimum / 24 hrs maximum. For films cured over 24 hours, scuff sanding is required using 400 grit sandpaper to promote adhesion.

**Reduction for Spray:** Depending on type of spray equipment, reduce 15% by volume using MAGNET S8 Multi-Temperature Reducer.

**Brush:** If brush drag is present, thin 10% by volume with S8 Multi-Temp Reducer. NEVER use mineral spirits lacquer thinners or solvents containing alcohols. Use xylol (xylene) as alternate if S8 is unavailable.

**Resistance To:** Abrasion, impact, road salt, battery acid, gasoline, diesel fuel, solvents, chemicals, salt air, corrosives and temperature extremes.

**Pot Life:** Do not open until ready to use! Any moisture contamination of this product will cause hardening in the container. Pot life after opening will depend on humidity and moisture introduced to the product.

**Shelf Life:** Minimum 36 months in unopened containers.

**Packaging:** 1/2 Pint (8 oz), 1 quart, 1 gallon, 5 gallon, 55 gallon drum

**Suitable Top Coats:** MAGNET 4800 Series Synthetic-Urethane Enamel, MAGNACRYL™ 9000 Series Acrylic Enamel or MAGNATRON™ 6000 Series Acrylic Polyurethane.

### Performance Properties \*

Initial Gloss, 60°:	Gloss Black = 100, Antique-Satin Black = 35
	Silver-Aluminum = 25, Light Gray = 100
	Pencil Hardness ..... F
	Direct Impact, in/lbs. .... 125
	Reverse Impact, in/lbs. .... 45
	Acid Resistance ..... 10
	Caustic Resistance ..... 10
	Solvent Resistance ..... 10

\*Minimum cure time - 7 days ambient; Acid, caustic and solvent resistance are rated on a scale of 10 - 1, with 10 equal to no effect after a 24 hour spot test. Solvents and substances tested include: MEK, Toluene, Naphtha, Grease, Diesel Fuel, Gasoline, Gasohol, and Road Tar. Acids tested with ratings of "10" include solutions of: 5% Sodium Hydroxide, 20% Hydrochloric Acid, 20% Phosphoric Acid, 5% Tannic Acid, 10% Sulfuric Acid.

**LIMITED WARRANTY:** Since the use and application of this product is beyond the control of the seller or manufacturer, the sole responsibility under this guarantee and under any other warranty or guarantee, expressed or implied, in connection with the sale and use of this material, shall be the return of the purchase price of this material or, at the seller's option, replacement of the material, if proven defective. Neither labor costs nor any consequential damages are covered by this limited warranty. This product is sold subject to the understanding that the buyer assumes all risks of use or handling which may result in loss or damage which are beyond the control of Magnet Paint & Shellac Co., Inc. such as, incompatibility with other products and the manner of their use or application. NO OTHER EXPRESSED OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY IS MADE. All buyers and users are deemed to have accepted the terms of this notice which may not be varied.

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