

# AUTO-GUARD™

## AUTOMOTIVE RESTORATION PRODUCTS

# Technical Data Sheet

## RUST ENCAPSULATOR

AUTO-GUARD products are specially engineered high performance products designed to provide easy to use and high quality results for the restoration refinishing or painting of vehicles of any kind. The RUST ENCAPSULATOR product is designed to coat over and encapsulate rust and corrosion on weathered metal to bond the rust to the metal and prevent any corrosive material from permeating through to the metal substrate to continue allowing the rust to spread while revitalizing the part or structure to endure many more years of useful protected life.

Many products claim to stop rust but nothings can stop rust permanently like AUTO-GUARD RUST ENCAPSULATOR.

### APPLICATIONS

RUST ENCAPSULATOR products are designed and manufactured for the express intent to provide a high performance protective coating that will restore and revitalize metal substrates that have succumb to corrosion from exposure to weathering, moisture, chemicals, fertilizers, salts, beet juice, diluted acid and alkali fumes or spills.

RUST ENCAPULATOR can be used as a primer or primer/topcoat to extend the life of any type of vehicle, farm implements, heavy equipment, snow plows, lawn care equipment, metal furniture, tanks, structures, AC and refrigeration units, pipes, off shore equipment, drilling equipment . Virtually any metal surface exposed to a corrosive environment or affected by rust.

### WORKING PROCESS

#### MIXTURE

AUTO-GUARD RUST ENCAPSULATOR is a one component product. Stir and use.

#### MIXING INSTRUCTIONS

**Do Not Shake !** Shaking can cause pressure to build up in the can. Open the container carefully in case of pressure build up. Stir with stick . If entire contents of container are not going to be used; then using small cups, dip out the amount of product needed and pour it into a separate container. Seal unused portion. Left open and exposed to moisture the unused portion will thicken and become unusable. Be careful not to seal the can with paint in the lip. This product cures so hard the lid will be sealed shut and cannot be reopened without destruction of the can.

#### THINNING

No thinning is required.

#### POT LIFE

At 20°C/68°F. 8 hours exposed material

#### APPLICATION INSTRUCTIONS

In order to obtain the right film formation, the temperature should be at least 45°F. The temperature of the substrate should be at least 15° F above dew point. Keep application area well ventilated during application and drying. Proper air movement is essential to achieve good drying properties. Be sure to wear proper respirator equipment when applying this product.

#### METHOD OF APPLICATION

Product should be applied by brush or roller. It can be sprayed but proper NIOSH approved respirator and proper safety equipment must be worn. Best sprayed with conventional air spray gun. Always wear gloves and safety glasses. Apply at 3.0 to 4.0 mils wet film thickness which will yield 2.0 to 2.5 mils dry film thickness per

### PERFORMANCE AND PROPERTIES

#### AESTHETIC PRODUCT PROPERTIES

Gloss Colors	Silver Aluminum - Medium Gloss 70+ Gloss Black - High Gloss 90+ (Not for use in direct sunlight)
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#### PRODUCT PROPERTIES

Volume solids	67-69%
VOC	2.50 lbs/gal. 299 gr/ltr.
Density	At 20°C./68°F. 1.15 kg/ltr. - 9.60 lbs/gal.
Dry Film thickness	2.0 - 2.8 mils max
Theoretical coverage	@ DFT of 2.0 mils 563 ft2/gal.
Practical coverage	The performance in practice depends on various circumstances. As a guideline for airless spraying, for large dimensions, 70% of the theoretical coverage. For small dimensions, 50% of the theoretical coverage.

Heat resistance	Maximum 250°F (dry load)
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#### DRYING PROPERTIES

To Touch :	1-2 Hours
To Recoat:	2-3 Hours
To Topcoat with Aerosol:	3 Hours min. / 24 Hours max.
To Topcoat Urethane:	4 Hours min. / 24 Hours max.
To Handle:	3 Hours

NOTE: After maximum period scuffing is required to obtain proper topcoat adhesion.

NOTE: During drying and curing the higher the relative humidity the faster and harder the product will cure. AUTO-GUARD RUST ENCAPSULATOR products are moisture sensitive, any open container or exposed product will become unusable within an one hour. Tightly seal any unused portion of the product being careful not to drip product into the rim of the can. Cured paint gets very hard and will seal the paint lid to the can.

#### PERFORMANCE SPECIFICATIONS

Salt Spray ASTM B-117	3000 hrs
Impact (Direct and Indirect) ASTM D-2794	80 in lbs
Flexibility ASTM D-522Conical Mandrell:	No cracking-One-inch
Chemical Resistance:	50 Double MEK Rubs
Acid Resistance:	Spills - Good Fumes - Excellent
Chlorine Resistance:	Spills - Good Fumes - Excellent
QUV ASTM D 4587	5000+ hrs

# RESTORE AND PROTECT YOUR INVESTMENTS



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## AUTOMOTIVE RESTORATION PRODUCTS

### RUST ENCAPSULATOR

#### APPLICATION DATA

**Brush and Roller:** Use a China Bristle brush or a Urethane Core short nap roller. Do not apply excess paint. Dip brush or roller and clear off excess paint, then make even strokes. Avoid going back and forth over the same area multiple times. If two coats are needed, allow the first coat to dry for about 2 hours before the second coat is applied.

**Spray:** Use conventional air spray or HVLP guns. Fluid nozzle should be between 1.0 and 1.4. Larger nozzels can apply excess millage and cause bubbling or blistering. Air pressure should be between 40 and 50 lbs.

**Clean Up Thinner:** Xylene, Toluene, MEK or Lacquer Thinner

#### ENVIRONMENTAL AND HEALTH

**Labeling** In accordance with DOT directions and in accordance with EPA directives on hazardous materials. Harmful and irritating in contact with skin, eyes and by inhalation. In case of eye contact, immediately wash with large amounts of water and contact a medical expert. Do not eat, drink or smoke during application.

UN 1263

#### PRODUCT INFORMATION

**Packaging** 1 quart,cans, 1 gallon cans , 5 gallon pails

**Shelf life** In original well shut packaging 24 months, stored inside at temperatures between 45°F and 90°F.

#### PROTECTIVE COATINGS

Our 'protective coatings' excel by virtue of their durability, flexibility, adhesion, easy application, anti-corrosion, and chemical and mechanical resistance. This is the result of our vast competence in coating chemistry, combined with a good eye for our client's requirements and wishes. The coating systems conform to ISO 12944 and comply with international VOC guidelines.

#### SAFETY

AUTO-GUARD Rust Encapsulator products contain chemicals that are harmful if inhaled, absorbed or swallowed. Observe MSDS cautions and wear proper respirators, gloves and protective clothing when handling or spraying these products.

**Rusted Surfaces:** Remove any loose rust, prepare to the desired level of smoothness by using a wire brush, sandpaper, scotch brite pad or steel wool. Clean any dust, dirt or contaminate and apply directly over the rusted surface.

**New or Unfinished Surfaces: Ferrous metal:** For best performance, application to abrasive blasted surface is recommended. "Commercial Blast Cleaning" (SSPC-SP6) is recommended as the minimum for blast cleaning. Proper blast media and blasting equipment shall be used to produce an average profile depth of 1.5 mils minimum. Do not reuse abrasive media. Remove blasting dust and grit from surfaces before painting. Blasted surfaces should be coated within 8 hours after blasting or before rusting or other contamination of the surface occurs. If blasting is not possible, use "Hand or Power Tool Cleaning: (SSPC-SP2 or -SP3).

**Galvanized Metal:** Remove oil by pressure washing with a cleaning soap solution, or "Brush Blasting" (SSPC-SP7) to create the best profile for the maximum adhesion.

**Aluminum:** Etching with a phosphoric acid pretreatment solution is recommended for maximum adhesion. Clean all contamination by scrubbing with a cleaning soap solution. Rinse clean with water and allow to dry.

**Previously Painted :** Repair all damaged areas. Remove gloss from previous paint by sanding or "Brush Blasting" (SSPC-SP7) remove heavy chalk and loose or peeling paint by "Hand or Power Tool Cleaning" (SSPC-SP2 or -SP3). If doubt exists concerning compatibility of this coating with the previous system, apply coating to a representative area (5 square feet minimum) and allow to cure and age several weeks. Then inspect for adhesion failure, wrinkling, lifting, blistering or any other sign of incompatibility. If there are no signs, coating work can proceed.

#### TECHNICAL SUPPORT

AUTO-GUARD offers more than just advice. We offer a total service solution to the agricultural industry, the farmer and equipment owners for the paint products and applications.

In order to ensure the required performance in terms of durability. AUTO-GUARD offers full technical support for implementation and completion of the application process, all in accordance with the ISO 12944 guideline.

The support provided by AUTO-GUARD does not relieve the applicator of their responsibility for the work performed. The paint applicator must thoroughly familiarize himself with the most recently updated product data sheets and the general terms and conditions of AUTO-GUARD for protective coatings on steel. AUTO-GUARD is not responsible for application and the application conditions. The final durability depends mainly on factors that are outside our control and for that reason we cannot accept any liability.

#### WARRANTY AND DISCLAIMER

The technical data and other printed information furnished are true and accurate to the best of our knowledge. The products are warranted pursuant to acceptance of limited warranty. A copy of which can be obtained from AUTO-GUARD Automotive Restoration Products, which is the exclusive warranty with respect to the sale of this product. The modification of any component or uses not outlined in this bulletin nullifies the warranty unless advance written confirmation is obtained from AUTO-GUARD Automotive Restoration Products. No other warranties expressed or implied shall apply. We assume no responsibility for coverage, performance or injuries resulting from use. Liability, if any, shall be to supply replacement materials as set forth in the limited warranty.