



# PRODUCT DATA SHEET

Zero Rust Primer  
RUST PREVENTATIVE COATING

## DESCRIPTION

ZERO-RUST® Primer is a high-solids, low VOC phenolic-modified alkyd coating which controls rust and corrosion by applying an impermeable barrier at the steel level. ZERO-RUST® is a single package, air dry, direct to metal coating which contains no lead or isocyanates. Perfect for new and old steel, rusty surfaces and partially rusted surfaces. For Metal Substrates Only.

PRODUCT NUMBERS	COATING PROPERTIES	PREPARATION INSTRUCTIONS
AR-60-CA RED OXIDE AR-61-CA GRAY AR-62-CA BLACK AR-67-CA WHITE	<b>Viscosity:</b> 75-81 KU <b>Weight Solids:</b> 60-70% <b>Volume Solids:</b> 43-55% <b>Weight/Gallon:</b> 11.0 – 12.8 lbs./gal <b>Coverage:</b> 280-300 square feet per gallon at recommended 3 mils dry film thickness.	<b>Thinning:</b> Always use VOC exempt solvents such as acetone to thin. Reductions up to 20% by volume may be necessary depending on application equipment used.*
PRODUCT ADVANTAGES	<b>VOC (reg/coating):</b> < 250 grams per liter	
<ul style="list-style-type: none"> <li>➤ Ultimate Rust and Corrosion Control</li> <li>➤ Use Directly on Partially Rusted, Rusty Surfaces*</li> <li>➤ Apply by brush, roll or spray.</li> <li>➤ Only Two Coats Required</li> <li>➤ Available In Aerosol Cans, Quarts, And Gallons</li> </ul> <p>* Surface must be clean and loose rust must be removed.</p>	<p><b>Dry Times:</b> <b>Air Dry:</b> at 78°F, relative humidity 50% To touch: 30 minutes To recoat by spray: Recoat after 20 minutes, but before 2 hours. If it has been longer than 2 hours since the first coat, wait 24 hours. To recoat by brush or roller: Wait 24 hours. To sand: 24 hours</p> <p>Relative humidity will affect the speed of drying. Ideal conditions are 75°F or warmer at 50% humidity or less. Dry time will be faster at higher temperatures and lower humidity and equally slower at colder temperatures and higher humidity.</p> <p><b>Recommended Dry Film Thickness:</b> Apply 2 coats at 3 wet mils per coat to achieve 3 dry mils of coating.</p> <p><b>Shelf Life:</b> 24 months @77° F if unopened and stored in a cool dry area. Always rotate stock.</p> <p><b>Storage:</b> Keep away from heat or sparks.</p>	<p>*Thinning with non-VOC exempt solvents will increase the VOC level of this product. Refer to your local regulations before thinning.</p> <p><i>Note: These numbers represent actual control values on a smooth, sanded substrate. Spray techniques, texture, and sealing as well as film thickness may give different results on actual work, but they may be used for comparison. To the best of our knowledge, the above technical data is true and accurate at the date of issuance but is subject to change without prior notice.</i></p>

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## PRODUCT DATA SHEET ZERO RUST CONTINUED



### Substrate preparation:

#### FOR COMPLETE PROCEDURES REFER TO THE APPLICATION GUIDE.

GENERAL – Usually, sandblasting is not required. **However**, if the surface has been polished or otherwise altered to create a smooth surface, the surface should then be sandblasted or properly abraded with 220-320 grit paper before finishing to promote adhesion. All surfaces must be cleaned to remove dirt, oil, grease, silicone and any other contaminants. Remove all loose rust. If water-based cleaners are used, the substrate must be allowed to dry completely before the application of Zero Rust. As with any paint product, a direct relationship exists between surface preparation and product performance. NOTE: Not for use on galvanized steel, stainless steel, or aluminum. Not recommended for submersion applications.



### Mixing Instructions: MIX THOROUGHLY BEFORE USING!



### Application:

Recommended application temperature: Metal substrate temperature should be between 50-95 °F. Apply by brush, roll, or spray. Application with airless spray equipment requires no thinning and can be done directly from the container. Spraying: For best results apply two total coats at 3 mils of wet film per coat allowing the product to flash between 20 minutes and up to 2 hours before applying the second coat. If it has been longer than 2 hours, wait 24 hours before recoating. If applying with a brush or by roller, apply two total coats at 3 mils of wet film per coat, waiting a minimum of 24 hours before applying the second coat. This will yield a total dry film thickness of approximately 3 mils which is necessary for optimum corrosion protection.

#### DRY TIME:

Drying times will vary greatly depending on applied film thickness, thinning, air movement, flash time between coats, relative humidity and temperature. *ZERO-RUST®* dries to the touch in 30 minutes and is tack free within one hour with proper application and when dried at 70°F and 50% relative humidity. Do not over apply. Excess film will extend dry times dramatically and waste material with no improvement in corrosion resistance. To ensure proper film thickness, measure with a wet film gauge.



#### Recommended Tip Sizes:

Conventional Air	1.8mm
HVLP	1.5-1.9mm
Airless	10-17 thousandths
Air Assisted Airless-	11-15 thousandths



### Precautions:

Not for use on galvanized steel, stainless steel, or aluminum. Not recommended for submersion applications. These products are intended for Professional use only. Do not proceed if you are planning on mixing with other finishing systems or other manufacturer's products. Gemini will not be held liable for finish failures due to the improper use of our products or deviation from our finishing recommendations.

### Clean up:

Cleanup and Disposal – Use acetone to clean equipment. Dispose of in accordance with Federal, State, and Local regulation regarding pollution.