



# Ganicin™ 2.8 MC-U Moisture-Cured Zinc-Rich Polyurethane Primer



## GENERAL

### DESCRIPTION

A high solids, two-component, 2.8 lbs/gal VOC conforming, moisture-cured organic zinc-rich coating based on Axalta polyurethane technology. The resulting coating is designed to be highly durable and to deliver outstanding corrosion resistance.

### SUGGESTED USES

As a high performance primer on carbon steel or as a touch-up for inorganic zinc coatings where:

- A coating with 85% zinc in the dried film with low VOC is required
- Spray application, or by brush when touch-ups may be necessary
- Application is recommended down to 35°F (2°C)
- No induction time and long pot life may improve productivity

Ganicin 2.8 MC-U is intended to be used as a primer and should be topcoated.

### COMPATIBILITY WITH OTHER COATINGS

Ganicin 2.8 MC-U Moisture-Cured Zinc-Rich Primer may be topcoated with Corlar® epoxies and/or Imron® polyurethane Primers. Do not apply Imron polyurethane topcoats, directly to Ganacin 2.8 MC-U. Ganacin 2.8 MC-U may also be used to touch up inorganic and organic zinc-rich coatings. Testing for lifting, bubbling and adhesion is recommended to assure compatibility with unknown coatings. Contact your Axalta representative for specific recommendations.

### NOT RECOMMENDED FOR

- Immersion service
- Exposure to acid or alkali environments without suitable topcoats

### PERFORMANCE PROPERTIES

Chemical	Excellent
Humidity	Excellent
Water spray	Excellent
Weather	Excellent with durable topcoat (will chalk if left untopcoated)

### COLOR

Grey green

The products referenced herein may not be sold in your market. Please consult your distributor for product availability.



## MIXING

### COMPONENTS

63P1500 primer base	1 short fill gallon container (0.46 gallon)
347YB1500™ zinc dust	1 gallon container (13.4 lbs.)

### MIX RATIO

#### Component

63P1500 primer base  
347YB1500 zinc dust

#### Part by Volume

1 container short fill (0.46 gallon)  
1 container (13.4 lbs.)

NOTE: Mixed amount will make 0.70 gallon.



**ACTIVATION**

Thoroughly stir 63P1500 primer, then slowly add 347YB1500 zinc dust with consistent agitation. After mixing, filter through a 40 mesh screen. Filter into an agitated spray pot. Constant agitation during application is recommended to prevent settling of zinc dust. Minimize contact with humid air.

**Reduction**

No reduction should be necessary. However, if conditions require thinning, Axalta T-9262™ may be used up to 5 oz./gal. To remain @ 2.8 lbs/gal VOC, use no more than 2 oz/gal.

**APPLICATION THINNERS**

Spray or brush: Axalta T-9262 up to 2 oz./gal. may be added and still remain conforming at 2.8 lbs/gal VOC. Amounts up to 5 oz./gal. Max can be used if required for various application conditions. Use no alcohol-containing thinners.

**POT LIFE**

At least 8 hours if moisture is excluded, shorter in high humidity and temperature.



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**APPLICATION**

**SURFACE PREPARATION**

An SSPC-SP 6 Commercial Blast Cleaning is preferred for optimal performance. For touch-up over inorganic zinc, Hand Tool Clean to an SSPC-SP 2 or Power Tool Clean to an SSPC-SP 3 can be used.

**APPLICATION CONDITIONS**

Do not apply if material, substrate or ambient temperature is below 35°F (2°C) or above 110°F (43°C). The substrate must be at least 5°F (3°C) above the dew point. Relative humidity should be below 90%.

For best results, apply by spray. Product can be brushed for small spot applications or repairs. Note that in high humidity, the coating will gradually accumulate on the brush.

**BRUSH APPLICATION**

Manufacturer: Wooster China Bristle - 3"- 4" brush

**SPRAY APPLICATION**

Manufacturers listed below are a guide. Others may be used. Changes in tip size or pressure may be required to achieve proper application.

**Conventional Spray**

	<u>Binks</u>	<u>DeVilbiss</u>
Spray Gun:	2001	JGA
Fluid Nozzle:	67SS	FF (1.4)
Air Cap:	67PR	704

**HVLP Spray**

	<u>Binks</u>	<u>DeVilbiss</u>
Spray Gun:	Mach 1	GTi
Fluid Nozzle:	94 (1.4)	1.4
Air Cap:	94P	2000

**Airless Spray**

Pump:	Graco Extreme 33:1
Airless Gun:	Graco 946853
Fluid Hose:	3/8" x 100' max.
Tips:	415-517RAC
Minimum pressure to avoid fingering:	2400 psi min.



**Application Notes**

- Must be agitated during application.
- For conventional air spray, fluid lines should be 0.5" inner diameter and 25-50' long maximum.
- For best results, keep pressure pot at the same height as the work.
- Apply a full, wet coat. Try not to exceed specified film build thickness.

**CLEAN UP THINNERS**

Axalta T-9262



**DRY TIMES**

Cure time at recommended thickness 3 mils DTF @ 50% RH

	<b>77°F (25°C)</b>
To touch	30 minutes
Re-coat	2 hours
Handle	3-4 hours

Note: May be overcoated with itself up to 3 days (72 hours) after initial application.



**PHYSICAL PROPERTIES**

Maximum Service Temperature	250°F (121°C) in continuous service 350°F (177°C) in intermittent service
Volume Solids	62% ± 2%
Weight Solids	89% ± 2%
Theoretical Coverage Per Gallon	994 ft <sup>2</sup> (24.4 m <sup>2</sup> /L) @ 1 mil DFT 330 ft <sup>2</sup> (8.1 m <sup>2</sup> /L) @ 3 mils DFT
Material losses during mixing and application will vary and must be taken into consideration when estimating job requirements.	
Weight Per Gallon	24.8 lb average   11.2 kg. average
Shipping Weight (approximate)	1 gallon container: liquid 3.8 lbs   zinc 13.4 lbs
Suggested Film Thickness	5 mils (125 µm) wet 3 mils (75 µm) dry
Application by brush and roller may require additional coats to achieve recommended films thickness.	
Flash Point: (Tag Closed Cup)	100°F (38°C)
Gloss	Flat
Package Size	1 container
Shelf Life	1 year minimum

**STORAGE CONDITIONS**

Store in a dry, well-ventilated area. Storage conditions should be between -30°F (-34°C) and 120°F (48°C).

Moisture-cured zinc-rich primer liquid may settle. Agitate before each use. To prevent pressure build-up after mixing, do not store in sealed containers.

**VOC REGULATIONS**

VOC (Theoretical, varies with color).	
Moisture cured zinc-rich primer; unreduced	2.76 lbs/gal (332 g/l)

These directions refer to the use of products which may be restricted or require special mixing instructions in VOC regulated areas. Follow mixing usage and recommendations in the VOC Compliant Products Chart for your area.



## ASTM INFORMATION

Physical properties are for Ganicin 2.8 MC-U Moisture-Cured Zinc-Rich Primer. For other system results, contact Axalta Coating Systems.

Paint System:	Ganicin 2.8 MC-U	
Type   Color:	Moisture-cure organic zinc-rich   Gray green	
DFT:	2.8 mils	
Salt Fog (ASTM B117)	1000 hours	no rusting, no blisters
	2000 hours	no rusting, no blisters
	3000 hours	no rusting, few #8 blisters at the scribe, no undercutting at the scribe
Relative Humidity (ASTM D2247)	1000 hours	no rusting, no blisters
	2000 hours	no rusting, no blisters
	3000 hours	no rusting, no blisters
Dry Heat (ASTM D2485)	250°F for 24 hours	no cracking, no blisters, moderate loss of adhesion, no discoloration
		1x10 <sup>10</sup> (OHMS)
Electrical Resistance:		
Adhesion (ASTM D4541):	2406 psi	cohesive failure within the coating
Cleveland Cond (ASTM D4585):	1000 hours	no rusting, no blisters
UV Con (ASTM D4587)*	3000 hours	Gloss before exposure: 2 Gloss after exposure: 0.9
	Evaluation	no rusting, no blisters, no delamination
Mandrel Bend (ASTM D522):	% Elongation – 5-10% (on smooth eCoat)	
Taber Abrasion (ASTM D4060):	weight loss in grams - 0.14	

\*8 hr UV @ 122°F (50°C), 4 hr condensation @ 104°F (40°C), gloss readings @ 60°

## SAFETY AND HANDLING

For industrial use only by professional, trained painters. Not for sale to or use by the general public. Before using, read and follow all label and MSDS precautions. If mixed with other components, mixture will have hazards of all components.

Ready to use paint materials containing isocyanates can cause irritation of the respiratory organs and hypersensitive reactions. Asthma sufferers, those with allergies and anyone with a history of respiratory complaints must not be asked to work with products containing isocyanates.

Do not sand, flame cut, braze or weld dry coating without a NIOSH approved air purifying respirator with particulate filters or appropriate ventilation, and gloves.

All technical advice, recommendations and services are rendered by the Seller gratis. They are based on technical data which the Seller believes to be reliable, and are intended for professional use by persons having skill and know-how at their own discretion and risk. Seller assumes no responsibility for results obtained or damages incurred from their use by Buyer in whole or in part. Such recommendations, technical advice or services are not to be taken as a license to operate under or intended to suggest infringement of any existing patent.

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