



PPG Architectural Coatings

PORTER GUARD® Galvanized Metal Primer

**GENERAL DESCRIPTION**

PORTER GUARD Galvanized Metal Primer No. PP290 is an excellent interior/exterior alkyd primer for galvanized (zinc plated) and non-galvanized steel, and other metals and concrete under latex paints and waterborne epoxies. It may also be used as a single coat primer/finish on dry interior steel, galvanized steel, aluminum and concrete ceilings, roof decks, bar joists, beams and metal HVAC systems.

**RECOMMENDED USES**

- Priming galvanized and non-galvanized steel and other metals and concrete
- Corrosion protection
- Primer or one-coat system for metal ceilings and overheads

**FEATURES / BENEFITS**

- Versatile Interior/exterior
- Barrier film & rust inhibitive Protects against corrosion
- Special alkyd resin Strong adhesion to galvanized metal

**RECOMMENDED SYSTEMS**

PORTER GUARD Galvanized Metal Primer No. PP290 is an excellent metal primer for use under emulsion latex and waterborne epoxy finishes. It also functions as a multipurpose primer (not recommended for wood except minor incidental) under those finishes. Typical Finishes Over PORTER GUARD Galvanized Metal Primer No. PP290 are:

	EGGSHELL			
	FLAT	/SATIN	SEMI-GLOSS	GLOSS
<b>INTERIOR</b>				
<b>Latex</b>	PP689 PP999 PP 6109	PP389 PP1119 PP6079	PP109 PP919 PP1139	PP909 PP2909
<b>WB Epoxy</b>	(Not Available)		PP9549S	PP9371 PP9549G
<b>EXTERIOR</b>				
<b>Latex</b>	PP519 PP579 PP929	PP599 PP739 PP3729	PP619 PP919 PP6029	PP909 PP2909

**TINTING AND BASE INFORMATION**

Tint with Porter DESIGN SPECTRUM® Colorants up to 4 oz. per gallon. Compatible universal colorants may also be used.

PP290 White

**PRODUCT DATA**

**Product Type:** Alkyd  
**Sheen:** Flat  
**Percent Solids:**  
**Weight:** 81 ± 2%  
**Volume:** 62 ± 2%

**VOC:**  
**As supplied (untinted):** 2.47 lb/gal (296 g/l)  
**When thinned to maximum:** 2.92 lb/gal (350 g/l)  
 \*Maximum thinning allowed for 350 g/l AIM limitation.  
 Do not exceed local regulations.

**Weight/Gallon:** 13.0 lb (Theoretical)  
**Viscosity (Initial):** 80 - 85 Krebs Units  
**Thinner:**

**Brush/Roller:** If necessary, thin sparingly with Porter Paint Thinner No. 5132 up to 1 pint per gallon.

**Spray:** If necessary, thin up to 1 pint per gallon with Porter Paint Thinner No. 5132.

(NOTE: With this amount of thinner, this product will meet the 350 g/l AIM VOC limit for primers and undercoaters. Local regulations may permit additional thinning.)

**Clean-up:** Porter Paint Thinner No. 5132.

**Recommended Film Thickness:**

	Metal Primer	One-Coat Primer/Finish
<b>Wet:</b>	3.4 mils	4.1 mils
<b>Dry:</b>	2.1 mils	2.5 mils

**Spread Rate (Theoretical):**  
 Up to 470 sq. ft./gal. Up to 390 sq. ft./gal.

**Dry time (70°F @ 50% R.H.):**  
**To Touch:** 4-6 hours  
**To Recoat:** 24 hours

(Drying times listed may vary depending on temperature, humidity, color, and air movement.)

**Flash Point:** 107 °F(42 °C)  
**Flame Spread Rating:** Class A (0-25)  
 (See Porter Technical Bulletin No. 9: Flame Spread Rating.)

**Federal Specification Crossover:** None  
 (See Porter Technical Bulletin No. 6: Federal Specification Performance Crossovers.)

**LIMITATIONS OF USE**

**Contains Portland Cement-avoid contact with skin and eyes.** Do not apply when air or surface temperature is below 35°F (2°C) or above 110°F (43°C). Surface temperature must be at least 5°F above dew point. For optimum application properties, bring material to 70-100°F (21-37°C). Use for service below 200°F. Alkyd finishes are not recommended.

## GENERAL SURFACE PREPARATION

Paint only clean, dry, deglossed and profiled (blasted, scarified or chemical treated) surfaces. Remove dirt, oils, grease, wax, release agents, sanding dust, paint remover, etc. with PORTERPREP™ Heavy Duty Cleaner No. PP571 or Dirtex and water, Porter Paint Thinner No. 5132, or other appropriate cleaners per SSPC-SP 1 cleaning procedures. Remove loose paint, mill scale, rust, etc. by Hand Tool Cleaning (SSPC-SP 2), Power Tool Cleaning (SSPC-SP 3) or Commercial Blast Cleaning (SSPC-SP 6). Treat galvanized surfaces with Galvaprep® 5. For mild service, treat rust with Metalprep® 79 (also clean other metals with Metalprep 79 prior to painting or as a pre-cleaner prior to other chemical treatment). Treat aluminum with Alumiprep® 33.

**WARNING!** If you scrape, sand, or remove old paint, you may release lead dust or fumes. LEAD IS TOXIC. EXPOSURE TO LEAD DUST OR FUMES CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a properly fitted NIOSH-approved respirator and prevent skin contact to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the USEPA National Lead Information Hotline at 1-800-424-LEAD or log on to [www.epa.gov/lead](http://www.epa.gov/lead). Follow these instructions to control exposure to other hazardous substances that may be released during surface preparation.

## DIRECTIONS FOR USE

Stir thoroughly before using and occasionally during use. Read all label and Material Safety Data Sheet (MSDS) information prior to use. MSDS are available through our website or by calling 1-800-441-9695. USE WITH ADEQUATE VENTILATION. KEEP OUT OF REACH OF CHILDREN.

### Permissible temperatures during application:

**Temperature Range:** 35°F to 110°F (air, surface, paint)  
(Optimum paint temperature 65-80°F)

**Dew Point:** Surface temperature must be at least 5°F above the dew point.

**Relative Humidity:** Maximum 85%

**New Galvanized:** Apply a uniform prime coat at the millage specified for the application. Finish with one or more coats of the selected Porter finish.

**New Overheads (Decks and Ceilings):** Apply a uniform, high build primer/finish coat, or apply a uniform prime coat, then finish with one or two coats of the selected Porter finish.

**Repaint:** Spot prime bare areas with PORTER GUARD Galvanized Metal Primer No. PP290, then apply one more coats of the selected Porter Finish.

## APPLICATION INFORMATION

**Application Equipment:** Apply with a high quality brush, roller, or by spray equipment.

**Airless Spray:** Minimum 1 gallon per minute pump; .015"-.019" tip; 1/4" ID Teflon hose; 1800-2400 psi.

**Conventional Spray:** (DeVilbiss) MBC-510 gun; E (.070) tip; 3/8" (1.0 cm) or 1/2" (1.3 cm) ID material hose—25 feet; 2 or 5 gallon double regulated, air agitator equipped pressure pot with oil and moisture separator.

Spray equipment must be handled with due care and in accordance with manufacturer's recommendation. High-pressure injection of coatings into the skin by airless equipment may cause serious injury.

**Brush:** Use nylon/polyester or china bristle brushes.

**Roller:** Use polyester or lambswool rollercovers.

**Thinning:** If necessary for brush or roller, thin with a small amount of Porter Thinner No. 5132. For spraying, thin up to 1 pint of Porter Paint Thinner No. 5132 per gallon.

**Clean-up:** Clean tools and spray equipment with Porter Paint Thinner No. 5132 immediately after use.

## SHIPPING

**Freight Classification:** PAINT OR PAINT RELATED MATERIAL

**Packaging:** 6 Quarts per carton; 4 Gallons per carton

**Shipping Weights:** 3.42 lb/qt (21.02 lb/carton); 14.2 lb/gal (57.8 lb/carton)

PPGAF believes the technical data presented is currently accurate; however, no guarantee of accuracy, comprehensiveness, or performance is given or implied. Improvements in coatings technology may cause future technical data to vary from what is in this bulletin. For complete, up-to-date technical information, visit our web site or call 1-800-441-9695.



PPG/Porter Paints  
400 South 13th Street  
Louisville, KY 40203  
[www.porterpaints.com](http://www.porterpaints.com)

Technical Services  
1-800-332-6270

Architect/Specifier:  
1-888-PPG-IDEA

PPG Industries, Inc.  
One PPG Place  
Pittsburgh, PA 15272  
[www.ppg.com](http://www.ppg.com)



No. PP290  
(Rev 10/06)