



PPG Architectural Coatings

PORTER GUARD® High Heat Aluminum

GENERAL DESCRIPTION

PORTER GUARD High Heat Aluminum No. PP1503 is a single component, high heat, silicone alkyd coating, containing metallic aluminum, for use as a primer/finish over properly prepared steel. It withstands temperatures up to 800°F (427°C) without discoloration or mottling. It is ideal for uninsulated stacks, breechings and other hot steel surfaces requiring high heat resistance. It can be applied by brush, roller or conventional spray. This product meets the 650 g/l VOC maximum for high temperature coatings.

RECOMMENDED USES

- Properly prepared steel
- Properly prepared iron

FEATURES / BENEFITS

- | | |
|------------------------------|------------------------------|
| • Special resin | Heat resistant to 800°F |
| • Single component | No component mixing required |
| • No discoloration/ mottling | Surfaces look good longer |
| • Heat cure not required | Saves time |

RECOMMENDED SYSTEMS

PORTER GUARD High Heat Aluminum No. PP1503 is typically applied only to stable, properly prepared steel and iron surfaces as a two-coat system:

PRIMER: PP1503
FINISH: PP1503

TINTING AND BASE INFORMATION

Do not tint.

PP1503 Aluminum

PRODUCT DATA

Product Type: 30% Copolymerized Silicone Alkyd
Sheen: Flat

Percent Solids:
Weight: 47 ± 2%
Volume: 31 ± 2%

VOC (theoretical):
As supplied (untinted): 4.51 lb/gal (540 g/l)

Weight/Gallon: 8.5 lb
Viscosity (Initial) 52 - 58 Krebs Units

Recommended Film Thickness:
Wet: 3.2 - 5.0 mils
Dry: 1.0 - 1.5 mils

Spread Rate (Theoretical): 320 - 500 sq. ft./gal.

Dry time (77°F @ 50% R.H.):
To Touch: 1 hour
To Handle: 8 hours
To Recoat: 16 hours

(Expect longer dry times at lower temperatures and higher relative humidity.)

Flash Point: 108°F (42°C)
Thinner: Thinning is not required under normal environmental and application conditions. If necessary, thin up to 1/2 pint per gallon with Porter Thinner No. 5132 or No. 5131

Clean-up: Porter Thinner No. 5132

Federal Specification Crossover: None

LIMITATIONS OF USE

(NOTE: Proper surface blast profile and film build are critical to the performance of this product. Blast cleaning must be tightly controlled to an average profile depth of 0.75 mils, and the dry film thickness must not exceed 1.0 to 1.5 mils (3.2 to 5.0 mils) per coat. Failure to follow these guidelines may result in diminished service and longevity, and is the responsibility of the user.)

Do not use over inorganic zinc coatings. Do not apply when air or surface temperature is below 50°F (10°C) or above 125°F (52°C). Surface temperature must be at least 5°F above the dew point. For optimum application properties, bring material to 70-100°F (21-38°C). Use for service below 800°F (427°C). Maintain product in tightly closed containers in protected storage between 40°F- 100°F. **Product must be completely dry and cured before exposure to heat.**

GENERAL SURFACE PREPARATION

Paint only clean, dry, deglossed and profiled (blasted, scarified or chemical treated) surfaces. Remove dust, oils, dirt, grease, wax, release agents, sanding dust, paint remover, etc. with PORTERPREP™ Heavy Duty Cleaner No. PP571, 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 Commercial Blast Cleaning (SSPC-SP 6) for general atmospheric exposure, and Near-White Blast Cleaning (SSPC-SP 10) for high heat service as appropriate. Blasting shall be done with a centrifugal wheel or compressed air blasting equipment, using proper abrasives to attain an average profile depth of 0.75 mils. Do not reuse sand or flint abrasives. Shot abrasives must be thoroughly clean of contamination before reuse. Remove dust and grit from the surfaces by appropriate methods. Coat the blasted surfaces within 8 hours or before rusting and contamination occur.

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. 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: 50°F to 125°F (air, surface, paint)
(Optimal temperature range 70-80°F)

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

Relative Humidity: Maximum 85%

New and Repaint: Apply two coats of PORTER GUARD High Heat Aluminum No. PP1503 at the specified mil thickness by brush, roller or conventional spray, following the recoat time guidelines. Do not exceed specified film thickness per coat.

APPLICATION INFORMATION

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

Airless Spray: Minimum 1 gallon per minute pump; 2000-2500 psi at tip; .013" to .015" tip.

Conventional Spray: DeVilbiss MBC-510 gun; FF tip; 704 Air Cap; 3/4" ID material hose; double regulated pressure tank 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.

Brushes: Use polyester-nylon or china bristle brushes.

Rollers: Use 3/8" nap polyester or lambswool roller covers.

Thinning: Thinning is not required under normal environmental and application conditions. If necessary for brush or roller application, thin sparingly up to 1/2 pint per gallon with Porter Thinner No. 5132. For spraying use Porter Thinner No. 5131, up to 1/2 pint per gallon.

Clean-up: Clean tools and spray equipment immediately after use with Porter Paint Thinner No. 5131 Spraying Thinner or Porter Thinner No. 5132.

SHIPPING

Freight Classification: PAINT

Packaging: 4 gallons per carton; 5-Gallon pail

Shipping Weights: 9.3 lb/gal (38.2 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

Technical Services
1-800-332-6270

Architect/Specifier:
1-888-PPG-IDEA

PPG Industries, Inc.
One PPG Place
Pittsburgh, PA 15272
www.ppg.com



No. PP1503
(Rev 10/06)