



PORTER GUARD[®] High Heat Aluminum

1503

PORTER GUARD High Heat Aluminum No. 1503 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.

USED FOR	FEATURES
<ul style="list-style-type: none"> • Properly prepared steel • Properly prepared iron 	<ul style="list-style-type: none"> • Heat resistant to 800°F. • Single component • Metallic aluminum color • No discoloration/mottling • Excellent weather resistance • Heat cure not required • Easy application & recoat

RECOMMENDED SYSTEMS
PORTER GUARD High Heat Aluminum No. 1503 is typically applied only to stable, properly prepared steel and iron surfaces as a two-coat system:

PRIMER: 1503
FINISH: 1503

LIMITATIONS
(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 wet 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 and 100°F. **NOTE: Product must be completely dry and cured before exposure to heat.**

TECHNICAL DATA

Product Type: Silicone alkyd
Color: Aluminum
Sheen: Flat
Percent Solids:
 Weight: 47 ± 2%
 Volume: 31 ± 2%
PVC: 33 ± 2%
Weight/Gallon: 8.5 lb
Viscosity (Initial): 52 - 58 Krebs Units
Thinner:
 Brush/Roller: Thinning is not required under normal environmental and application conditions. If necessary, thin up to ½ pint per gallon with Porter Paint Thinner No. 5132.
 Spray: Thinning is normally not necessary. If necessary, thin up to ½ pint per gallon with Porter Spraying Thinner No. 5131.
Clean-up: Porter Paint Thinner No. 5132 or Porter Spraying Thinner No. 5131.

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 @ 50% R.H.: @ 50°F @ 75°F @ 90°F
 To Touch: 4 hours 1 hour 45 minutes
 To Handle: 12 hours 8 hours 6 hours
 To Recoat: 24 hours 16 hours 14 hours

(Expect longer dry times at lower temperatures and higher relative humidity.)
Flash Point: 108°F (42°C)
Federal Specification Crossover: None.
(See Porter Technical Bulletin No. 6: Federal Specification Performance Crossover.)

Note: This product is not formulated with lead or mercury containing materials.

REGULATORY DATA

VOC (theoretical):
 As supplied: 4.51 lb/gal (540 g/l)
 When thinned to maximum: 4.74 lb/gal (568 g/l)

SURFACE PREPARATION

Paint only clean, dry, blast profiled surfaces. Remove dirt, oils, grease, wax, dust, paint remover, etc. with PORTERPREP™ Heavy Duty Cleaner No. 571, Soilax and water, Porter Paint Thinner No. 5132 or other appropriate cleaners per SSPC-SP 1 cleaning procedures. Remove 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.

INSTRUCTIONS FOR USE

Tinting: Do not tint.

Mixing: Mix thoroughly with a power agitator **and strain through a minimum 30 mesh screen** before application.

Thinning: Thinning is not required under normal environmental and application conditions. If necessary **for brush or roller**, thin sparingly up to ½ pint per gallon of Porter Paint Thinner No. 5132. **For spraying**, thin up to ½ pint of Porter Spraying Thinner No. 5131 per gallon.

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

Application:

Conditions: Temperature Range:

50°F to 125°F (air, surface, paint) (Optimum paint temperature 70-80°F)

Dew Point:

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

Relative Humidity:

Maximum 85%

Equipment: Brushes:

Use appropriate size china bristle brushes for touch-up.

Rollers:

Use 3/8" synthetic "all purpose" roller covers.

Conventional Spray:

DeVilbiss MBC-510 gun; FF tip; 704 Air Cap; ¾" ID material hose; double regulated pressure tank with oil and moisture separator.

Directions: New and Repaint:

Apply two coats of PORTER GUARD High Heat Aluminum No. 1503 at the specified mil thickness by brush, roller or conventional spray, following the recoat time guidelines. Do not exceed specified film thickness per coat.

PRECAUTIONS

Prior to using this product, the user is specifically directed to obtain and read the current Material Safety Data Sheet and Label for this product. If, after reading these documents, you do not understand them, do not use this product. KEEP OUT OF REACH OF CHILDREN.

SHIPPING

Freight Classification: PAINT OR PAINT RELATED MATERIAL

Packaging: 4 gallons per carton

Shipping Weights: 9.3 lb/gal (38.2 lb/carton)



The technical data furnished is true and accurate to the best of our knowledge. However, no guarantee of accuracy is given or implied. We assume no responsibility for coverage, performance or injuries resulting from use. Liability, if any, is limited to replacement of products. Technical data are theoretical values and subject to change without prior notice.

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