



Simco Coatings Inc.

Manufacturer of Military Spec.,  
Corps of Engrs. Spec, Industrial, &  
Marine Coatings

## TECHNICAL DATA SHEET

### **HTR-7502 (CONFORMANCE: TT-P-28 REVISION G)** **HI-HEAT RESISTANT PAINT**

**PRODUCT DESCRIPTION:** A one component, pure silicone based pigmented finish specially designed to withstand 1000 °F constant temperatures and intermittent 1200°F exposure. This paint is lead and chromate free and contains no more than 2.80 lbs. per gallon (340 grams per liter) of volatile organic compounds (VOC) as applied. When applying to bare metal, Simco HTR-7500 primer is required.

**RECOMMENDED USES:** Used as a high heat coating for stacks, breaching, furnaces, exhaust mufflers, superheated steam lines, boiler casings and similar high temperature applications.

**CONFORMANCE:** This product conforms to TT-P-28, Revision G.

#### **TECHNICAL DATA**

<b>FINISH:</b>	Aluminum Silver, Flat Black
<b>GENERIC TYPE:</b>	Pure silicone resins
<b>FLASH POINT:</b>	45°F
<b>% SOLIDS BY VOLUME:</b>	55.0 ± 1%
<b>VOLATILE ORGANIC COMPOUND (VOC):</b>	2.80 lbs./gallon or 340 g/l
<b>RECOMMENDED DFT:</b>	2.0 to 2.5 mils/coats
<b>COVERAGE:</b>	Approx. 600 sq. ft. / gal. per mil.
<b>RECOMMENDED THINNER:</b>	MIL-T-81772 Type III
<b>RECOMMENDED PRIMER:</b>	HTR-7500
<b>DRYING TIME:</b>	2-3 hrs. After which the metal Temperature should be gradually raised to approx. 300°F
<b>COMPLETE CURE:</b>	1 hr. @ 400°F
<b>NUMBER OF COATS:</b>	Normally one

#### **SURFACE PREPARATIONS:**

All surfaces must be clean, dry and free from all loose rust, scale, paint or oil. For best results abrasive blast SSPC SPC-6".

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### **PAINTING OTHER THAN BLASTED SURFACES:**

These coatings have been found to perform satisfactorily when applied to parts that do not lend themselves to sand blasting. In application to such parts, however, it is absolutely necessary that all loose rust and tight and loose mill scale must be removed by wire brushing and chipping. Coatings should then be applied by brushing, taking care to work the paint well into the roughened surfaces.

### **APPLICATION:**

Brush, Roller or spray may be used. Care should be taken to achieve required film build. Simco's Heat Resisting Primer HTR-7500 is recommended to be used first over very smooth substrates for proper adhesion to the topcoat.

### **CONVENTIONAL SPRAY:**

DeVilbiss MBC-510 spray gun "E" Fluid Tip #704, #765 or #78 Air Cap.

### **AIRLESS SPRAY:**

Use of spray tips with 0.015" to 0.021" orifice is suggested depending on available pressure and job conditions, with a minimum of 2800 PSI tip pressure.

### **SAFETY PRECAUTIONS:**

(A) Use normal precautions such as gloves, facemasks. (B) Adequate ventilation must be maintained. (C) Explosion proof lights and electrical equipment. (D) Non-sparking shoes and tools for workers in the area. (E) This product contains flammable materials. Forbid all flames, smoking and welding in the work area. (F) Avoid breathing of vapor, contact with skin and eyes.

### **NON-WARRANTY:**

The technical data listed herein has been compiled for your convenience and guidance, and is based upon our experience and knowledge. However, since we have no control over the use of this information or of this product, no warranty, expressed or implied, is intended or given. Simco Coatings, Inc., assumes no responsibility whatsoever for coverage, performance, or any other damages, including injuries resulting from use of this information or of products recommended herein.

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