

HEAT RESISTANT COATING

OEM COATING: HEAT CURE

SERIES L278

FOR HIGH TEMPERATURE APPLICATIONS



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DESCRIPTION

Heat Resistant Coating (L278) is a single component inorganic waterborne system. This heat cured coating may be applied to a wide variety of substrates to offer resistance to high heat, friction, wear, galling and seizing.

L278 is formulated for extreme environments where temperature, nuclear radiation and vacuum preclude the use of organic materials.

L278 is offered in both a Black and Gray option. Use the Black as a primer coat for the Gray when lubricative properties are desired for the application. L278 is not recommended for corrosion protection.

OUTSTANDING FEATURES/BENEFITS

- Offers resistance to extreme heat exposures up to 760°C (1400°F)
- · Exhibits excellent thermal stability
- Withstands thermal shock for LOX compatibility
- **ZERO VOC**

NOTICE

Before using this product, read all warnings, limitations and safety information printed on the product label, Safety Data Sheet (MSDS), and Technical Data Sheet.

TYPICAL USES

- · Metals exposed to extreme heat cycling temperatures
- Automotive, agricultural, and aerospace high temperature applications
- Formulated for extreme environments where temperature, nuclear radiation, and vacuum preclude the use of organic

COMPOSITION AND PHYSICAL PROPERTIES			
Net Weight per gallon	10.50 ± 0.5 lbs.	Vehicle	Soluble Silicate
Weight Solids	35.0% ± 5.0%	Lubricating Pigment	Gray: Graphite Black: None
voc	0.00 (Theoretical)	Color	Black or Gray
Odor	Odorless	Shelf Life	1 year from date of shipment
Viscosity	Black: 15 - 20 seconds, #2 EZ Zahn, 77°F Gray: 1500 - 3000 cps, #4 @ 50 rpm, 77°F	Storage Conditions	40°F – 100°F
		Freeze/Thaw Stability	KEEP FROM FREEZING
Coverage Rate*	320 sq. ft./gallon @ 0.5 mils (Theoretical)	Flash Point	Nonflammable
Dry Film Thickness	0.5 – 1.2 mils		
*Actual figures do not include spray loss. Also allow for surface irregularities and porosity, as well as material loss when mixing.			

PERFORMANCE AND FUNCTIONAL PROPERTIES Chemical/Fluid Resistance: Insoluble in solvents, conventional fuel & grease **Corrosion Protection** Not Recommended **Operating Temperature Range** -185°C (-301°F) to +760°C (1400°F) *upper threshold tested 1000 hours **Thermal Stability** Withstands thermal shock from 500°F to Liquid Oxygen immersion with no signs of blistering, ASTM D2511 LOX cracking, peeling, chipping, loss of adhesion or high temperature aging

SURFACE PREPARATION

Surface needs to be degreased to achieve optimum adhesion.

Application on Steel. Abrasive blast to a surface profile consistent with SSPC-SP/5 NACE #1, White Metal Blast Cleaning. Remove abrasive blast media with clean compressed air.

Call Sandstrom Technical Representative for information on preparing other metals.

IMPORTANT! DO NOT TOUCH CLEAN SURFACE WITH FINGERS - OIL FROM THE HANDS WILL INTERFERE WITH PROPER COATING ADHESION. Whenever possible, treat both contact surfaces (i.e., the shaft and the bearing)

STIRRING

IMPORTANT! THIS COATING CONTAINS HEAVY PIGMENTS WHICH SETTLE RAPIDLY. THEREFORE, IT SHOULD BE THOROUGHLY STIRRED **BEFORE** USE AND **CONTINUOUSLY** DURING APPLICATION.

THINNING

No thinning necessary as this is a Ready-To-Apply material.

APPLICATION

Apply L278 by conventional spraying.

BAKING

To avoid blistering and bubbles in the finished coat, use the following schedule or equivalent:

Flash off in spray booth for 5 - 8 minutes, with fans running to provide good air movement across the coated parts. Place the coated parts in a 140°F oven. Immediately ramp up the oven temperature to 350°F for 15 minutes. After 15 minutes, shut off the oven heater, but leave the fans running, and allow cooling for 15 - 20 minutes before removal of the parts from the Class A oven.

CLEANUP

Clean up with water immediately.

REMOVAL

In the event it is necessary to remove L278, physical removal is best (i.e.: grit blasting, sanding or grinding).

WARNINGS: Constant stirring is imperative for best results.

DANGER! USE WITH ADEQUATE VENTILATION.

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