



ClovaTherm: High Heat Resistant Aluminum 83203

Description

A single component, high heat resistant aluminum paint. This coating requires heat curing at a minimum of 232°C (450°F) for one hour to reach full cure and may be susceptible to mechanical damage until preheated. It is unaffected by mild weather exposure during this period. This product is listed under MPI Categories #2 and #22. Cloverdale's Hi-Heat Aluminum is for use on ferrous metal substrates in areas where the surface temperature ranges to 650°C (1202)°F. It can be used as a system with Inorganic Zinc Rich Primers for corrosion protection on exterior blasted steel surfaces.

Coating Properties

Coating Category	100% Silicone Binder
Gloss	Reflective
In-service Temperature Limits	
Continuous:	600°C (1112°F)
Intermittent:	650°C (1202°F)
Product VOC (g/L)	<639 gm/l

Coverage Information

Volume Solids	26% May vary by base/color
Theoretical Coverage	417 ft ² /gal (10.2 m ² /L) @ 1 mil (25!microns)DFT These coverage rates are based on 100% transfer efficiency
Recommended Film Thickness	Wet: 4 - 6 mils (100 -150 microns) Dry: 1.0 - 1.5 mils (25 - 38 microns)
Applied Coverage	<i>Actual coverage will vary depending on substrate and application method. Please contact your Cloverdale Industrial Representative for specific project</i>

Benefits

Burnish Resistant
Fast Dry
High Heat Resistance
High Hide
High Level of Adhesion
Low Reflectance
Self-Priming

Markets / End-Uses

Barbeques
Breechings
Heat Exchangers
Industrial Machinery
Kilns and Boilers
Piping
Stove Stacks
Turbine Housings
Wood Burning Stoves

Bases

83203 Aluminum





Substrates and Surface Preparation

All surfaces must be clean, dry and free from loose mill scale, weld spatter, oils, grease, wax, dust or any other foreign contaminant affecting adhesion.

Minimum preparation as follows:

Ferrous: SSPC-SP5 White Metal Blast preferred. Surface must be coated before flash rusting is allowed to occur. Surface profile should not exceed 1.5 mils when used without a primer.!!!!

System Recommendations

Contact your Cloverdale Technical Representative for system recommendations.

Mixing Instructions

- Mix well before using.
- Stir or power mix to ensure the aluminum flake is evenly distributed throughout the coating.

Methods of Application

Application Parameters

Relative Humidity	Not to exceed 85%
Minimum Temperature	10°C (50°F)
Maximum Temperature	35°C (95°F)
Application Comment	<ul style="list-style-type: none"> • 83002 ClovaZinc 2 is recommended as a primer in corrosive environments. • This product must reach a minimum 232°C (450°F) for 1 hour to reach full cure.

Equipment Settings

Airless Spray	Min. Fluid Capability	2000 psi
	Tip Size	.011" - .013"
Air Spray	Pot Pressure	15 – 20 psi
	Atomizing Air	30 – 50 psi
	Nozzle Set	0.7 - 1.4
Air Assisted Airless	Min Fluid Capability	2000 psi
	Atomizing Air	30 - 50 psi
	Tip Size	.011" - .013"
Brush/Roll	<ul style="list-style-type: none"> • Lap marks may be visible. • Use solvent resistant equipment. 	

Substrates

Ferrous Metals

Thinner

78011 Xylene

Equipment Cleaning

Use the recommended thinner

Product Weight

8.34lbs/gallon

Shelf Life

1 year
Applicable only for material stored in unopened, undamaged factory filled containers stored at 4°C-38°C (39°F-100°F). Subject to reinspection.

Flash Point

7°C (44.6°F) T.C.C.

Package Size

1 gallon





Drying Times

Substrate Temperature	Touch Dry	Hard Dry
25°C (77°F)	30 minutes	after heat cure

Safety Precautions

This product is for Industrial / Shop use only.

WARNING! If you scrape, sand or remove old lead paint from any surface you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH approved respirator to control lead exposure. Carefully clean up with a wet mop or HEPA vacuum. For additional information, Canadian customers contact the Product Safety division of Health Canada at 1-800-O-CANADA, US customers contact the U.S. EPA/Lead Information Hotline at 1-800-424-LEAD (5323).

WARNING! Use with Adequate Ventilation. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

WARNING! Proper breathing PPE must be worn during application. Refer to Safety Data Sheet for proper health and safety information, located at www.cloverdalepaint.com

Updates

Please visit www.cloverdalepaint.com for the most recent versions of Technical Data Sheets and Safety Data Sheets.

Last Modification date: 08/25/2017

LIMITATION OF LIABILITY

To the best of our knowledge, the technical data contained herein are true and accurate at the time of issuance but are subject to change without prior notice. We guarantee our product to conform to the specifications contained herein. All technical advice, recommendations and services regarding this product are rendered by the Seller gratis. They are based on technical data which the Seller believes to be reliable and are intended for use by persons having skill and know-how, at their discretion and risk. Seller assumes no responsibility for results obtained or damages incurred from this product use by Buyer whether as recommended herein or otherwise. Such recommendations, technical advice or services are not to be taken as a license to operate under or suggest infringement of any patent.

WARRANTY

Cloverdale Paint Inc. warrants its products to be free from defects in material and workmanship. At its option, Cloverdale Paint Inc. will either replace products not conforming to this warranty or credit the Buyer's account the invoiced amount for the non-conforming products. This is Cloverdale Paint Inc.'s sole obligation and Buyer's exclusive remedy in connection with the products. In no event shall Cloverdale Paint Inc. be liable for special, indirect, consequential or incidental damages.

By purchasing this product the Buyer accepts this warranty in lieu of all others, and waives all claims to any other remedy arising from any warranty or guarantee of quality, whether such warranty or guarantee of quality was made expressly to the Buyer or implied by any applicable law.





Any claim under this warranty must be made in writing by the Buyer to Cloverdale Paint Inc. within ten (10) days of discovery of the claimed non-conformance, but in no event later than one (1) year from the delivery date. The Buyer's failure to notify Cloverdale Paint Inc. of such non-conformance as required herein shall bar the Buyer from recovery under this warranty.

READ LABEL AND SAFETY DATA SHEET PRIOR TO USE.

