



Mercury Paint **MERMAS 100CW** **ALUMINIZED EPOXY COATING**

<p>PRODUCT FEATURES</p> <ul style="list-style-type: none"> • High performance • Self priming for steel surfaces • Low temperature application • Surface tolerant • High solids, High film builder • Low VOC • Exceptional corrosion protection • Suitable as a topcoat <p>GENERAL PROPERTIES</p> <p>A high performance, aluminum pigmented, surface tolerant, two component chemically cured low sheen epoxy coating. Provides exceptional barrier protection in corrosive environments.</p>	<p>RECOMMENDED USES</p> <ul style="list-style-type: none"> • Properly prepared steel • Bridges • Structural steel and decks • Piping • Storage tanks • Machinery • Pulp & paper mills • Chemical plants • Off shore and marine structures • Immersion (non-potable water) <p>LIMITATIONS</p> <ul style="list-style-type: none"> • Exterior exposure will cause color change, chalking and loss of gloss, but does not affect the protection properties.
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TECHNICAL DATA

Finish	Semi-gloss
Vehicle Type	Advanced technology epoxy
Pigment Type	Aluminum / Anti-corrosive
Solvent Type	Aromatics / Alcohols
Coating Category	Industrial Maintenance
VOC (EPA 24)	Less than 340 g/l
% Solid by volume	87 ± 3%
Weight/Per Gallon	11.90 lbs minimum
Recommended Dry Film by Coat	4.0 to 8.0 mils dry, 6.0 to 12.0 mils wet
Theoretical Coverage	At 4-6 mils dry 230-285 sq ft per gallon
Viscosity @ 77° F	100 KU minimum
Dry Time Average	See chart
Application Method	Brush, roller, spray
Shelf Life	2 Years unopened
Packaged	Five gallon pails only
Flash Point	100° F (minimum)
Colors	Aluminum, Red and custom colors upon request
Federal Specification	N/A



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SURFACE PREPARATION

GENERAL: Scrub, high pressure detergent wash, steam clean or solvent wipe to remove dirt, oil, grease, pollutants and other contaminants. Allow to dry thoroughly.

FERROUS METAL: Commercial Blast(SSPC-SP-6) to remove rust and scale and obtain a surface profile. For optimal corrosion resistance and immersion service, blast clean to Near White Metal(SSPC-SP-10). For non-corrosive environments, Brush Blasting(SSPC-SP-7), Power Tool Cleaning(SSPC-SP-3) or Hand Tool Cleaning(SSPC-SP-2) are acceptable if surface is in good condition. Blast profile on steel should be 1 ½ - 2 ½ mils. Prime all surfaces before rerusting or recontamination can occur.

GALVANIZED METAL which has been mill treated with chromate or other type inhibitors may require Vinyl Wash Pretreatment.

PREVIOUSLY PAINTED SURFACES: If surface is sound, remove any foreign material by solvent cleaning or power washing. Abrade hard, smooth, glossy surfaces by brush blasting or sanding. Apply a test patch to confirm adhesion and compatibility. Check adhesion after drying for 7 days. If adhesion is poor or this coating attacks the previous coating, removal may be required. If previous coating is peeling, clean to a sound substrate.

APPLICATION CONDITIONS

	MATERIAL	SUBSTRATE	AMBIENT	HUMIDITY
NORMAL	60-85°F	60-90°F	60-90°F	0-85%
MINIMUM	50°F	35°F	35°F	0%
MAXIMUM	90°F	120°F	120°F	85%

SAFETY

These materials are designed for application only by professional, trained personnel, using proper equipment under controlled conditions, and are not intended for sale to the general public. Safe application of paints and coatings requires knowledge of equipment, materials and individual training. Directions and precautionary information on both equipment and products should be carefully read and strictly observed for personal safety and property protection. Consideration must be given to eliminate conditions which may generate hazardous atmospheres during spray application or subject operators, or bystanders, to injury or illness. Special precautions must be taken when utilizing spray equipment, particularly airless equipment. High pressure injection of coatings into the skin by airless equipment may cause serious injury, requiring immediate medical attention at a hospital. Treatment advice may be obtained from Poison Centers. Air quality should be maintained with adequate ventilation; applicators can achieve additional protection by wearing respirators and other protective garments such as gloves and overalls. In all cases, wear protective eye equipment. During the application of all coating materials, all flames, welding and smoking must be prohibited. **EXPLOSION PROOF EQUIPMENT MUST BE USED WHEN COATING WITH THESE MATERIALS IN CONFINED AREAS.**

APPLICATION EQUIPMENT

Conventional spray - Binks #62 Gun with 68 PB Aircap and 66 fluid tip needle or an equivalent.

Airless spray - Graco 207-300 Gun with Bulldog 30-1 or King 45-1 pump. Use 0.021" - 0.029" tip at 2,000 psi. Reverse-a-clean tips are highly recommended.

Brush / Roller - Use natural bristle brush and mohair roller.

MIXING & THINNING

Mixing Power mix separately, then combine and power mix. At material temperatures below 75°F sweat-in the mixed material for 15 minutes. DO NOT MIX PARTIAL KITS.

Ratio 1:1 Ratio (A to B)

Thinning May be thinned up to (15%) with 100/200 Thinner. Use of thinners other than those supplied or recommended by Mercury Paint Corporation may adversely affect product performance and void product warranty, whether expressed or implied. Other thinner combinations may be used in extreme hot or cold weather. Consult Mercury Technical services for guidance.

Pot life 3 Hours at 75°F (24°C)
Pot life ends when coating loses body and begins to sag. Pot life times will be less at higher temperatures.

CURING SCHEDULE

Surface Temp. % 50% Relative Humidity	Dry to Handle	Dry to Recoat / Topcoat	Final Cure for Immersion
35°F(2°C)	14 Hours	14 Hours	14 Days
75°F(24°C)	3 Hours	4 Hours	8 Days
90°F(32°C)	1 Hours	2 Hours	5 Days

These times are based on a 3.0-5.0 mil (75-125 micron) dry film thickness, insufficient ventilation or cooler temperatures will require longer cure times and could result in solvent entrapment and premature failure. Excessive humidity or condensation on the surface during curing can interfere with the cure, can cause discoloration and may result in surface blush or haze. Any haze or blush must be removed by water washing before recoating. **Maximum recoat time is 6 months without special surface preparation.** "Loose" chalk must be removed in accordance with good painting practice. If the maximum recoat time has been exceeded, the surface must be abraded by sweep blasting or sanding prior to the application of additional coats.

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ACCURACY OF DATA

The technical data presented above are true and accurate as of the date of issuance of this Mercury Paint data sheet and are subject to change without notice. We endeavor to supply all catalog holders with up-to-date catalog pages. Therefore, if the issue date is more than a year old, please inquire whether a new page has since been issued. Please visit www.mercurypaint.com for the newest version of this data sheet.

WARRANTY

This product is warranted only to conform to the analysis and specifications expressed above. No other warranty or guarantee, including its merchantability or suitability for any specific application, is implied. The liability of Mercury Paint Corporation, if any, is limited to replacement of product or refund of purchase price and excludes labor, cost of labor of other consequential damages, provided that the purchaser notifies management of Mercury Paint Corporation with twenty-four hours of the application of the product.

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