



# Mercury Paint **MERMAS 200CW** **MULTI-PURPOSE EPOXY COATING**

## PRODUCT FEATURES

- Low temperature cure
- Quick dry
- Self priming
- High solids
- Low VOC
- Exceptional corrosion protection

## GENERAL PROPERTIES

Mermas 200CW is a high solids, low temperature, rapid cure primer/finish designed for service in the most aggressive environments. This self priming finish coat has excellent corrosion resistance. To be used on steel, galvanized steel and concrete.

## RECOMMENDED USES

- Steel
- Galvanized steel
- Concrete
- Bridges
- Tanks
- Ships
- Water treatment plants
- Power plants
- Water towers
- Floors
- Machinery
- Off shore structures

## LIMITATIONS

- Exterior exposure will cause color change, caulking and loss of gloss, but does not affect the protective properties..

## TECHNICAL DATA

Finish	Satin
Vehicle Type	Epoxy/Polyamide
VOC	Less than 340 g.p.l.
% Solid by weight	91 ± 2.0% (A&B) mixed
% Solid by volume	87 ± 2% (A&B) mixed
Weight/Per Gallon	14.25 ± 0.3 lbs
Recommended Film Thickness	Wet: 7-10 mils Dry: 4-6 mils
Theoretical Coverage	235-290 sq/ft per gallon @ 4-6 mils dry
Viscosity @ 75° F	115 to 140 Krebs units (A&B) mixed
Storage Conditions	Indoors at 45°F-110°F
Shelf Life	2 years unmixed
Flash Point	58°F
Colors	White, Gray, Black and Custom colors upon request
Number of components	Two
Packaged	Two gallon kits, Ten gallon kits
Application	Brush, roller or spray
Reducer	10/200 Thinner or MEK
Recommended Steel System	Mermas 101 - <b>Mermas 200CW</b> - Merthane 300CW



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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.

**CONCRETE, CONCRETE BLOCK (CMU):** For surface preparation, refer to NACE 6/SSPC-SP13. Surfaces should be thoroughly clean and dry. Concrete and mortar must be cured at least 28 days at 75°F. Remove all loose mortar, form release, and curing compounds. Surface must be free of concrete dust, dirt, loose cement, laitance, and hardners. Fill bug holes and other voids with concrete patch. Weathered surfaces must be brush blasted or power tool cleaned to remove contamination creating a firm surface. Laitance must be removed by etching with 10% muriatic acid followed by complete neutralization with water.

**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
<b>NORMAL</b>	60-85°F	60-90°F	60-90°F	0-85%
<b>MINIMUM</b>	50°F	35°F	35°F	0%
<b>MAXIMUM</b>	90°F	120°F	110°F	90%

**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** 4 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	18 Hours	14 Days
75°F (24°C)	7 Hours	8 Hours	8 Days
90°F (32°C)	3 Hours	4 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](http://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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