*Protective & Marine Coatings*
PRODUCT DATA SHEET

# ZINC CLAD® IV (85)
## ORGANIC ZINC RICH COATING

Revised: March 19, 2019

## PRODUCT DESCRIPTION

**ZINC CLAD IV (85)** is a two-component, polyamide epoxy, zinc-rich coating. It contains 85% by weight of zinc dust pigment in the dried film.

- Coating self-heals to resume protection if damaged
- Provides cathodic/sacrificial

## INTENDED USES

- For use over properly prepared blasted steel
- Areas exposed to fresh and salt water
- Areas exposed to brackish water
- Areas exposed to chemical fumes
- Topcoating is recommended for maximum protection
- Not recommended for immersion service

## PRODUCT DATA

**Finish:** Flat

**Colors:** Gray-Green

**Volume Solids:** 68% ± 2%, ASTM D2697, mixed

**VOC (mixed):** <340 g/L; 2.8 lb/gal, unreduced
<340 g/L; 2.8 lb/gal, reduced 5%

**Mix Ratio:** 2 components, premeasured; 8:1
2.25 gallons (8.5L) total

**Typical Thickness:**

**Recommended Spreading Rate per coat:**

| | Minimum | Maximum |
|---|---|---|
| **Wet mils** (microns) | **5.0** (125) | **8.0** (200) |
| **Dry mils** (microns) | **3.0** (75) | **5.0** (125) |
| **~Coverage sq ft/gal** ($m^2$/L) | **218** (5.4) | **363** (8.9) |
| Theoretical coverage **sq ft/gal** ($m^2$/L) @ 1 mil / 25 microns dft | **1090** (26.8) | |

*NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.*

**Shelf Life:** 18 months, unopened
Store indoors at 40°F (4.5°C) to 100°F (38°C).

**Flash Point:** 80°F (27°C), PMCC, mixed

**Reducer/Clean Up:**
Above 80°F (27°C): M.E.K.
Below 80°F (27°C): Reducer #58 or M.E.K.

**Weight:** 26.45 ± 0.2 lb/gal ; 3.17 Kg/L, mixed

**Average Drying Times @ 5.0 mils wet (125 microns):**

| | 40°F (4.5°C) | 77°F (25°C) *50% RH* | 110°F (43°C) |
|---|---|---|---|
| **Touch:** | 45 minutes | 30 minutes | 15 minutes |
| **Handle:** | 1.5 hours | 1 hour | 45 minutes |
| **Recoat*:** | | | |
| **minimum:** | 6 hours | 4 hours | 2 hours |
| **maximum**:** | none | none | none |
| **Cure:** | 10 days | 10 days | 7-10 days |
| **Pot Life:** | 8 hours | 6 hours | 4 hours |
| **Sweat-in-time:** | 1 hour | 30 minutes | 15 minutes |

*NOTE: Film must be free of solvent, hard and firm. When rubbed with the face of a coin or knife the film should polish but not flake or chip.

**Maximum Recoat: Unlimited. Must have a clean, dry surface for topcoating."Loose" chalk or salts must be removed in accordance with good painting practice.

*Drying time is temperature, humidity, and film thickness dependent.*

## SURFACE PREPARATION

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.

Zinc rich coatings require direct contact between the zinc pigment in the coating and the metal substrate for optimum performance.

***Minimum recommended surface preparation:***
Iron & Steel: Atmospheric: SSPC-SP6/NACE 3/ ISO8501-1:2007 Sa 2, 2 mil (50 micron) profile

*Note: If blast cleaning with steel media is used, an appropriate amount of steel grit may be incorporated into the work mix to render a dense, angular 1.5-3.0 mil (38-75 micron) surface profile.*

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## APPLICATION

**Airless Spray**
(use Teflon packings and continuous agitation)
Pressure.....2000-2300 psi (138-158 bar)
Hose.....3/8" ID (9.5 mm)
Tip .....019" (0.48 mm)
Reduction.....As needed, up to 10% by volume

**Conventional Spray**
(continuous agitation required)
Gun .....Binks 95
Fluid Nozzle .....68
Air Nozzle.....68P
Atomization Pressure.....50 psi (3.4 bar)
Fluid Pressure.....10-20 psi (0.7-1.4 bar)
Reduction.....As needed, up to 10% by volume

*Keep pressure pot at level of applicator to avoid blocking of fluid line due to weight of material. Blow back coating in fluid line at intermittent shutdowns, but continue agitation at pressure pot.*

**Brush**
Brush.....For touch-up only (reduction not recommended)

If specific application equipment is not listed above, equivalent equipment may be substituted.

## RECOMMENDED SYSTEMS

| Dry Film Thickness / ct. | | Mils | (Microns) |
|---|---|---|---|
| **Steel, Organic Zinc/Epoxy** | | | |
| 1 Ct. | Zinc Clad IV (85) | 3.0-5.0 | (75-125) |
| 1-2 Cts. | Macropoxy 646 | 5.0-10.0 | (125-250) |
| **Steel, Organic Zinc/Epoxy/Urethane** | | | |
| 1 Ct. | Zinc Clad IV (85) | 3.0-5.0 | (75-125) |
| 1-2 Cts. | Macropoxy 646 | 5.0-10.0 | (125-250) |
| 1 Ct. | Acrolon 7300 | 2.0-4.0 | (50-100) |
| **Steel, Organic Zinc/Epoxy/Urethane** | | | |
| 1 Ct. | Zinc Clad IV (85) | 3.0-5.0 | (75-125) |
| 1 Ct. | Macropoxy 267 | 5.0 | (125) |
| 1 Ct. | Acrolon 7300 | 2.0-4.0 | (50-100) |
| **Steel, Organic Zinc/Polysiloxane** | | | |
| 1 Ct. | Zinc Clad IV (85) | 3.0-5.0 | (75-125) |
| 1-2 Cts. | Sher-Loxane 800 | 2.0-4.0 | (50-100) |

The systems listed above are representative of the product's use, other systems may be appropriate.

## WARRANTY

The Sherwin-Williams Company warrants our products to be free of manufacturing defects in accord with applicable Sherwin-Williams quality control procedures. Liability for products proven defective, if any, is limited to replacement of the defective product or the refund of the purchase price paid for the defective product as determined by Sherwin-Williams. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY SHERWIN-WILLIAMS, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

## APPLICATION CONDITIONS

**Temperature (air, surface, material):**
40°F (4.5°C) minimum, 120°F (49°C) maximum
At least 5°F (2.8°C) above dew point

Relative humidity: 85% maximum

## APPROVALS

- Meets SSPC-Paint 20 Type II, Organic, Level 1
- Meets Class A requirements for Slip Coefficient and Creep Resistance, .49

## ADDITIONAL NOTES

**Mixing Instructions:** Mix contents of each component thoroughly with a low speed power agitator. Make certain no pigment remains on the bottom of the can. Then combine 8 parts by volume of Part U with 1 part by volume of Part V. Thoroughly agitate the mixture with power agitation. After mixing, pour through a 30-60 mesh screen. Allow the material to sweat-in as indicated. Re-stir before using. If reducer solvent is used, add only after both components have been thoroughly mixed, after sweat-in. Continuous agitation of mixture during application is required, otherwise zinc dust will quickly settle out.

Do not tint.

## HEALTH AND SAFETY

Refer to the SDS sheet before use.

Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.

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