PRODUCT DESCRIPTION

ZINC CLAD II (85) a solvent-based two-package, inorganic ethyl silicate, zinc-rich coating.
• 85% zinc content in dry film
• Coating self-heals to resume protection if damaged
• Provides cathodic/sacrificial

INTENDED USES

• For use over properly prepared blasted steel
• As a one-coat maintenance coating or as a permanent primer for severely corrosive environments (pH range 5-9)
• Economical replacement for galvanizing with similar performance
• Ideal for application at low temperatures or service at high temperatures and/or humidity conditions
• Where abrasion resistance and hardness is required
• Not recommended for severe acid or alkali exposure

PRODUCT DATA

Volume Solids: 62% ± 2%, ASTM D2697, mixed
VOC (mixed): <500 g/L; 4.17 lb/gal
Finish: Flat
Colors: Gray-Green

Average Drying Times:

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Touch</th>
<th>Handle</th>
<th>Recoat</th>
</tr>
</thead>
<tbody>
<tr>
<td>55°F (13°C)</td>
<td>30 minutes</td>
<td>3 hours</td>
<td>Minimum 48 hours, Maximum n/a</td>
</tr>
<tr>
<td>77°F (25°C)</td>
<td>20 minutes</td>
<td>1-2 hours</td>
<td>18 hours</td>
</tr>
<tr>
<td>100°F (38°C)</td>
<td>15 minutes</td>
<td>20 minutes</td>
<td>n/a</td>
</tr>
</tbody>
</table>

Cure to Service

- Atmospheric: 7 days
- Immersion: 14 days

Pot Life: 18 hours

Note: High humidity will shorten pot life

Weight: 20.9 ± 0.2 lb/gal; 2.5 Kg/L, mixed
Shelf Life: Store indoors at 40°F (4.5°C) to 100°F (38°C)
Part E: 9 months (unopened)
Part F: 24 months (unopened)

Package:
- 1.5 gallons (5.7L) mixed
- 5 gallons (18.9L) mixed

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:
- Immersion: SSPC-SP10 / NACE 2 / ISO8501-1:2007 Sa 2.5, 2 mil (50 micron) profile
ZINC CLAD® II (85)  
INORGANIC ZINC RICH COATING

APPLICATION

Airless Spray
(use Teflon packings and continuous agitation)
- Pressure: 1800 - 2000 psi (124-137 bar) 
- Hose: 3/8" ID (9.5 mm)
- Tip: .017" - .021" (.43-0.53 mm)
- Reduction: As needed up to 10% by volume

Conventional Spray
(continuous agitation required)
- Gun: Binks 95
- Fluid Nozzle: 66
- Air Nozzle: 63PB
- Atomization Pressure: 30 - 40 psi (2-2.7 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
For touch-up only

APPLICATION CONDITIONS

- Temperature: 0°F (-17°C) minimum, 120°F (49°C) maximum
- Material: 120°F (4.5°C) minimum
- Relative humidity: 40% - 90% maximum
- Water misting may be required at humidity below 50%

APPROVALS

- Meets AASHTO M-300 specification
- Meets Class B requirements for Slip Coefficient and Creep Resistance, .56
- This product meets specific design requirements for non-safety related nuclear plant applications in Level II, III and Balance of Plant, and DOE nuclear facilities
  * Nuclear qualifications are NRC license specific to the facility

ADDITIONAL NOTES

- Do not tint.
- Excessive film build, poor ventilation, and cool temperatures may cause solvent entrapment and premature coating failure.
- Any salting on the zinc surface due to weathering exposure must be removed prior to topcoating.
- An intermediate coat is recommended to provide uniform appearance of the topcoat.
- Oil base, alkyd, epoxy ester, and silicone alkyd topcoats are not recommended.
- Topcoats may be applied once 50 MEK double rubs are achieved. No zinc or only slight traces should be visible. Coin hardness test can also be used.

RECOMMENDED SYSTEMS

<table>
<thead>
<tr>
<th>Dry Film Thickness / ct.</th>
<th>Micls</th>
<th>Microns</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel, Zinc Primer/Finish, Immersion or Atmospheric</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 Ct. Zinc Clad II (85)</td>
<td>2.0</td>
<td>(50-100)</td>
</tr>
<tr>
<td>Steel, Epoxy Topcoat, Atmospheric</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 Ct. Zinc Clad II (85)</td>
<td>2.0</td>
<td>(50-100)</td>
</tr>
<tr>
<td>1 Ct. Macropoxy 646</td>
<td>5.0-10.0</td>
<td>(125-250)</td>
</tr>
<tr>
<td>Steel, Epoxy/Urethane Topcoat, Atmospheric</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 Ct. Zinc Clad II (85)</td>
<td>2.0</td>
<td>(50-100)</td>
</tr>
<tr>
<td>1 Ct. Macropoxy 646</td>
<td>5.0-10.0</td>
<td>(125-250)</td>
</tr>
<tr>
<td>1 Ct. Acrolon 7300</td>
<td>2.0-4.0</td>
<td>(50-100)</td>
</tr>
<tr>
<td>Steel, Epoxy/Urethane Topcoat, Atmospheric</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 Ct. Zinc Clad II (85)</td>
<td>2.0</td>
<td>(50-100)</td>
</tr>
<tr>
<td>1 Ct. Macropoxy 267</td>
<td>5.0</td>
<td>(250)</td>
</tr>
<tr>
<td>1 Ct. Acrolon 7300</td>
<td>2.0-4.0</td>
<td>(50-100)</td>
</tr>
<tr>
<td>Steel, Epoxy/Polysiloxane Topcoat, Atmospheric</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 Ct. Zinc Clad II (85)</td>
<td>2.0</td>
<td>(50-100)</td>
</tr>
<tr>
<td>1 Ct. Macropoxy 267</td>
<td>5.0</td>
<td>(250)</td>
</tr>
<tr>
<td>1-2 Cts. Sher-Loxane 800</td>
<td>2.0-4.0</td>
<td>(50-100)</td>
</tr>
</tbody>
</table>

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.

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.

DISCLAIMER

The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your Sherwin-Williams representative to obtain the most recent Product Data Sheet.