



Protective & Marine Coatings

PRODUCT DATA SHEET

ZINC CLAD[®] 1001

ORGANIC ZINC RICH COATING

(FORMERLY WATTYL GALVIT EP100)

Revised: May 27th, 2020

PRODUCT DESCRIPTION

ZINC CLAD 1001 is a two-component; polyamide cured zinc-rich epoxy primer that contains 87% by weight of zinc dust pigment in the dried film.

- Coating self-heals to resume protection if damaged
- Provides cathodic/sacrificial protection of steel
- Designed for fast recoating at low temperatures

INTENDED USES

- For use over properly prepared blasted steel
- Designed as a primer for various paint systems in atmospheric and immersion conditions
- Top coating is recommended for maximum protection; top coating paint system must be non-saponifiable
- Can serve as a holding primer for various maintenance systems for a total repair

PRODUCT DATA

Volume Solids:	56% ± 2%, mixed
VOC (mixed):	Unreduced <440 g/L Reduced 10%: < 520 g/L (Calculated according to APAS AP-D181)
Finish:	Flat
Colours:	Grey
Mix Ratio:	3:1 by volume

Typical Thickness:

Recommended Spreading Rate Per Coat

	Minimum	Maximum
Wet microns	90	180
Dry microns	50	100

Theoretical coverage m²/L @ typical dft (75 micron) 7.5

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

Shelf Life: at least 12 months, unopened, stored indoors between 5°C and 35°C

Flash Point: 24°C, mixed

Reducer/Clean Up: Thinner L760

Weight: 2.67 Kg/L mixed

Packaging: 8 L kit mixed
Part A: 6 L (in 10 L can)
Part B: 2 L

Average Drying Times @ 135 microns wet

	5°C	15°C	25°C	35°C
	<i>with standard hardener</i>			
	<i>50% RH</i>			
Touch	60 mins	45 mins	30 mins	15 mins
Handle	3 hours	2 hours	1 hour	1 hour
Recoat				
- Minimum	4 hours	3 hours	2 hours	1.5 hours
- Maximum*	3 months	3 months	3 months	3 months
Cure to Service				
- Atmospheric	10 days	7 days	5 days	3 days
Pot Life	14 hours	8 hours	5 hours	3 hours
Induction Time	1 hour	30 mins	15 mins	10 mins

* NOTE: Zinc rich primers can form zinc salts on the surface. Before overcoating, 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 top coating. "Loose" chalk or salts must be removed in accordance with good painting practice.

Drying time is temperature, humidity, and film thickness dependent

SURFACE PREPARATION

Product performance is dependent upon degree of 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: Blast clean (AS 1627.4) to Sa 2½ minimum (AS 1627.9), 40-70 micron profile.



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APPLICATION	APPLICATION CONDITIONS																																				
Airless Spray* Pump 30:1 Fluid Pressure 2100 psi (15 MPa) Hose 3/8" ID (9.5 mm) Tip 0.43 – 0.48 mm (0.017 – 0.019 inch) Reduction As needed up to 20% by volume	Temperature: Air, surface and material: 5°C minimum, 49°C maximum Relative humidity: 85% maximum																																				
Conventional Spray* Fluid Tip..... 1.5 – 2.0 mm (0.059 – 0.078 inch) Atomization Pressure 30 - 60 psi (2.1 – 4.1 bar) Reduction As needed up to 20% by volume	APPROVALS • Approved to APAS 0014/2 and to APAS 2916/1 • Conforms to AS/NZS 3750.9 type 2																																				
Brush/Roller For touch-up only (reduction not recommended, max. of 3% by volume if required)	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 top coating. Suitable intermediates/topcoats include but not limited* to: <ul style="list-style-type: none">• Macropoxy 250• Macropoxy 680• Macropoxy 985• Acrolon 750• Acrolon 775• EnviroLastic 940• Sher-Loxane 800 <i>*Contact your Sherwin-Williams representative for further details, specifications and/or compatibility with other primers and topcoats.</i>																																				
RECOMMENDED SYSTEMS*																																					
<table><tr><th>Dry Film Thickness / ct.</th><th>Microns</th></tr><tr><td colspan="2">Steel, Organic Zinc Primer/Epoxy Atmospheric</td></tr><tr><td>1 Ct. Zinc Clad 1001</td><td>50 – 100</td></tr><tr><td>1 Ct. Macropoxy 985</td><td>150 – 500</td></tr><tr><td colspan="2">Steel, Organic Zinc/Epoxy/Urethane, Atmospheric</td></tr><tr><td>1 Ct. Zinc Clad 1001</td><td>50 – 100</td></tr><tr><td>1 Ct. Macropoxy 680</td><td>100 – 250</td></tr><tr><td>1 Ct. Acrolon 750</td><td>75 – 120</td></tr><tr><td colspan="2">Steel, Organic Zinc/Epoxy/Urethane, Atmospheric</td></tr><tr><td>1 Ct. Zinc Clad 1001</td><td>50 – 100</td></tr><tr><td>1 Ct. Macropoxy 985</td><td>150 – 500</td></tr><tr><td>1 Ct. Acrolon 750</td><td>75 – 120</td></tr><tr><td colspan="2">Steel, Organic Zinc/Polyaspartic, Atmospheric</td></tr><tr><td>1 Ct. Zinc Clad 1001</td><td>50 – 100</td></tr><tr><td>1 Ct. EnviroLastic 940</td><td>150 – 225</td></tr><tr><td colspan="2">Steel, Organic Zinc/Polysiloxane, Atmospheric</td></tr><tr><td>1 Ct. Zinc Clad 1001</td><td>50 – 100</td></tr><tr><td>1 Ct. Sher-Loxane 800</td><td>100 – 150</td></tr></table> <i>* Contact your Sherwin-Williams representative for further details, specifications and/or additional recommended systems.</i>	Dry Film Thickness / ct.	Microns	Steel, Organic Zinc Primer/Epoxy Atmospheric		1 Ct. Zinc Clad 1001	50 – 100	1 Ct. Macropoxy 985	150 – 500	Steel, Organic Zinc/Epoxy/Urethane, Atmospheric		1 Ct. Zinc Clad 1001	50 – 100	1 Ct. Macropoxy 680	100 – 250	1 Ct. Acrolon 750	75 – 120	Steel, Organic Zinc/Epoxy/Urethane, Atmospheric		1 Ct. Zinc Clad 1001	50 – 100	1 Ct. Macropoxy 985	150 – 500	1 Ct. Acrolon 750	75 – 120	Steel, Organic Zinc/Polyaspartic, Atmospheric		1 Ct. Zinc Clad 1001	50 – 100	1 Ct. EnviroLastic 940	150 – 225	Steel, Organic Zinc/Polysiloxane, Atmospheric		1 Ct. Zinc Clad 1001	50 – 100	1 Ct. Sher-Loxane 800	100 – 150	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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WARRANTY	DISCLAIMER																																				
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