Protective & Marine Coatings

ZINC CLAD® 108
CORPS OF ENGINEERS VINYL-TYPE ZINC-RICH IMPACTED IMMERSION COATING

PART A:	B64R300	RED VINYL BASE
PART B:	B64C300	SILANE ADDITIVE
PART C:	B69D300	ZINC DUST

Revised: May 9, 2022

PRODUCT INFORMATION

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PRODUCT DESCRIPTION

Zinc Clad 108 is a solution vinyl zinc rich primer designed in accordance with the compositional and performance requirements of Corps of Engineers Guide Specification UFGS 09 97 02, Painting: Hydraulic Structures, Formula VZ108d.

PRODUCT CHARACTERISTICS

Finish:	Flat
Color:	Reddish Gray
Volume Solids:	20% ± 2%, mixed (calculated)
Weight Solids:	56% ± 2%, mixed
VOC (EPA Method 24):	<780 g/L; 6.5 lb/gal
Mix Ratio:	3 components, premeasured 5 gallons mixed

Recommended Spreading Rate per coat:

Wet mils:	Up to 12.5 wet mils in one double spray coat.
Dry mils:	Up to 2.5 dry mils in one double spray coat.
Coverage:	128 sq ft/gal approximate

NOTE: Only areas inaccessible to spraying shall be brushed. Multiple coats may be required to achieve maximum film thickness and uniformity of appearance.

Drying Schedule @ 12.5 mils wet @ 50% RH, and 77°F:

To touch:	10 minutes
To recoat-minimum:	Per UFGS 09 97 02, subsequent coats can be applied any time after the previous coat is tack-free and firm to the touch, provided that no speedup or delay in the recoating schedule shall cause film defects such as sags, runs, air bubbles, air craters, or poor intercoat adhesion.
To recoat-maximum:	8 days

To cure - immersion service:
Above 65°F: 3 days minimum
Below 65°F*: 6 days minimum
*or if the immersion exposure involves considerable abrasion

Pot Life: Approximately 8 days if kept covered at all times
Sweat-in-time: None required

Shelf Life:	Part A: 12 months, unopened Part B: 12 months, unopened Part C: 24 months, unopened Store indoors at 40°F to 100°F
Flash Point:	62°F SETA Flash, mixed
Reducer/Clean Up:	
Below 80°F:	Thinning not normally required.
Above 80°F:	Either MIAK or MIBK

RECOMMENDED USES

When used with specified V-766e vinyl topcoats (Corps of Engineers Guide Specification UFGS 09 97 02 Paint System 5-E-Z), suitable for most freshwater structures subject to moderate-to-high abrasive, erosive, and gouging stresses stemming from moving water carrying floating debris and ice, e.g. navigation dam gates, tainter valves, sluice gates and trash racks.

PERFORMANCE CHARACTERISTICS

Meets the compositional and performance requirements of Corps of Engineers Guide Specification UFGS 09 97 02, Painting: Hydraulic Structures, Formula VZ-108d, Vinyl-Type Zinc-Rich Impacted Immersion Coating.

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RECOMMENDED SYSTEMS

Steel, Immersion:
Corps of Engineers Section UFGS 09 97 02, Paint System 5-E-Z:

1 ct: Zinc Clad 108
@ up to 2.5 mils dry in one double spray coat
Must be 1.5 – 2.5 mils above blast profile
1 ct: V-766e Gray Vinyl Topcoat
@ up to 2.0 mils dry in one double spray coat
1 ct: V-766e White Vinyl Topcoat
@ up to 2.0 mils dry in one double spray coat
1 ct: V-766e Gray Vinyl Topcoat
@ up to 2.0 mils dry in one double spray coat

Total system dry film thickness must be 7.0 mils minimum with no spot less than 5.5 mils.

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

DISCLAIMER

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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 good adhesion.

Refer to product Application Bulletin for detailed surface preparation information.

Do not use hydrocarbon solvents for cleaning.

Minimum recommended surface preparation:
* Iron & Steel: SSPC-SP5, 1.5-2.5 mils profile

Surface Preparation Standards

	Condition of Surface	ISO 8501-1 BS7079:A1	Swedish Std. SIS055900	SSPC	NACE
White Metal		Sa 3	Sa 3	SP 5	1
Near White Metal		Sa 2.5	Sa 2.5	SP 10	2
Commercial Blast		Sa 2	Sa 2	SP 6	3
Brush-Off Blast		Sa 1	Sa 1	SP 7	4
Hand Tool Cleaning	Rusted	C St 2	C St 2	SP 2	-
	Pitted & Rusted	D St 2	D St 2	SP 2	-
Power Tool Cleaning	Rusted	C St 3	C St 3	SP 3	-
	Pitted & Rusted	D St 3	D St 3	SP 3	-

TINTING

Do not tint.

APPLICATION CONDITIONS

All surface preparation, application and inspection procedures to be in accordance with Corps of Engineers Guide Specification UFGS 09 97 02, Painting Hydraulic Structures.

Temperature: 35°F minimum, 125°F maximum (air, surface, and material)
At least 5°F above dew point
Relative humidity: 85% maximum

Paint shall be applied only to surfaces that are above the dew point temperature and that are completely free of moisture as determined by sight and touch.

Refer to product Application Bulletin for detailed application information.

ORDERING INFORMATION

Packaging: 5 gallons total, mixed
Part A: 4.5 gallons in a 5 gallon container
Part B: 3 fl. oz.
Part C: 27.5 lbs zinc dust
Weight per gallon: 12.10 ± 0.2 lb

SAFETY PRECAUTIONS

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.

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.

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Revised: May 9, 2022

APPLICATION BULLETIN

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SURFACE PREPARATIONS

General 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.

All surface preparation, application and inspection procedures to be in accordance with Corps of Engineers Guide Specification UFGS 09 97 02, Painting: Hydraulic Structures.

Surface Preparation Standards

	Condition of Surface	ISO 8501-1 BS7079:A1	Swedish Std. SIS055900	SSPC	NACE
White Metal		Sa 3	Sa 3	SP 5	1
Near White Metal		Sa 2.5	Sa 2.5	SP 10	2
Commercial Blast		Sa 2	Sa 2	SP 6	3
Brush-Off Blast		Sa 1	Sa 1	SP 7	4
Hand Tool Cleaning	Rusted	C St 2	C St 2	SP 2	-
	Pitted & Rusted	D St 2	D St 2	SP 2	-
Power Tool Cleaning	Rusted	C St 3	C St 3	SP 3	-
	Pitted & Rusted	D St 3	D St 3	SP 3	-

APPLICATION CONDITIONS

Temperature:	35°F minimum, 125°F maximum (air, surface, and material)
	At least 5°F above dew point
Relative humidity:	85% maximum

All surface preparation, application and inspection procedures to be in accordance with Corps of Engineers Guide Specification UFGS 09 97 02, Painting: Hydraulic Structures.

Paint shall be applied only to surfaces that are above the dew point temperature and that are completely free of moisture as determined by sight and touch.

APPLICATION EQUIPMENT

The following is a guide. Changes in pressures and tip sizes may be needed for proper spray characteristics. Always purge spray equipment before use with listed reducer. Any reduction must be compliant with existing VOC regulations and compatible with the existing environmental and application conditions.

Reducer/Clean Up:
Below 80°F .....Thinning not normally required
Above 80°F: .....Either MIAK or MIBK

All surface preparation, application and inspection procedures to be in accordance with Corps of Engineers Guide Specification UFGS 09 97 02*, Painting: Hydraulic Structures

*NOTE: Airless-type equipment shall not be used for the application of vinyl paints. Use only conventional spray equipment.

Brush
Only areas inaccessible to spraying shall be brushed.
Brush.....Natural Bristle
Reduction.....Not recommended

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

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APPLICATION PROCEDURES

Surface preparation must be completed as indicated.

Zinc Clad 108 comes in premeasured containers, which when mixed provide ready-to-apply material.

Mixing instructions:
Remove the 3 fl. oz. bottle of Part B Silane Additive from the Part C Zinc Dust container and add it to Part A Red Vinyl Base while stirring. Then sift Part C Zinc Dust into Part A Base using continuous air driven agitation. After mixing, pour through a 30 – 60 mesh screen.
If reducer solvent is used, add only after both components have been thoroughly mixed, after sweat-in.

Apply paint at the recommended film thickness and spreading rate as indicated below:

Recommended Spreading Rate per coat:

Wet mils:	Up to 12.5 wet mils in one double spray coat.
Dry mils:	Up to 2.5 dry mils in one double spray coat.
Coverage:	128 sq ft/gal approximate

NOTE: Only areas inaccessible to spraying shall be brushed. Multiple coats may be required to achieve maximum film thickness and uniformity of appearance.

Drying Schedule @ 12.5 mils wet @ 50% RH, and 77°F:

To touch:	10 minutes
To recoat-minimum:	Per UFGS 09 97 02, subsequent coats can be applied any time after the previous coat is tack-free and firm to the touch, provided that no speedup or delay in the recoating schedule shall cause film defects such as sags, runs, air bubbles, air craters, or poor intercoat adhesion.
To recoat-maximum:	8 days

To cure - immersion service:
Above 65°F: 3 days minimum
Below 65°F*: 6 days minimum
*or if the immersion exposure involves considerable abrasion

Pot Life: Approximately 8 days if kept covered at all times
Sweat-in-time: None required

Application of coating above maximum or below minimum recommended spreading rate may adversely affect coating performance.

CLEAN UP INSTRUCTIONS

Clean spills and spatters immediately with MIAK or MIBK. Clean tools immediately after use with MIAK or MIBK. Follow manufacturer's safety recommendations when using any solvent.

DISCLAIMER

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PERFORMANCE TIPS

Work product by brush into crevices, welds and sharp angles to prevent early failure in these areas.

When using spray application, use a 50% overlap with each pass of the gun to avoid holidays, bare areas, and pinholes. If necessary, cross spray at a right angle

During the early stages of drying, the coating is sensitive to rain, dew, high humidity, and moisture condensation. If possible, plan painting schedules to avoid these influences during the first 16-24 hours of curing.

Spreading rates are calculated on volume solids and do not include an application loss factor due to surface profile, roughness or porosity of the surface, skill and technique of the applicator, method of application, various surface irregularities, material lost during mixing, spillage, overthinning, climatic conditions, and excessive film build.

Excessive reduction of material can affect film build, appearance, and adhesion.

Do not mix previously catalyzed material with new.

Do not apply the material beyond recommended pot life.

In order to avoid blockage of spray equipment, clean equipment before use or before periods of extended downtime with MIBK.

Only areas inaccessible to spraying shall be brushed.

Refer to Product Information sheet for additional performance characteristics and properties.

SAFETY PRECAUTIONS

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