Protective & Marine Coatings

ZINC CLAD® III HS 100
ORGANIC ZINC-RICH EPOXY PRIMER

PART A	B69A110	BASE
PART B	B69V110	HARDENER
PART F	B69D11	ZINC DUST

Revised 2/12

PRODUCT INFORMATION

6.10

PRODUCT DESCRIPTION

ZINC CLAD III HS 100 is a three-component, polyamide epoxy, zinc-rich coating. It has a low VOC level and contains 90.3% by weight of zinc dust pigment in its dried film.

- Meets Class B requirements for Slip Coefficient and Creep Resistance
- Provides cathodic protection
- Damaged film exhibits "self-healing" properties
- Fast Recoat Time
- HAPS Free
- Outstanding application properties

PRODUCT CHARACTERISTICS

Finish:	Flat
Color:	Gray-green
Volume Solids:	60% ± 2%, mixed
Weight Solids:	88% ± 2%, mixed
VOC (EPA Method 24):	Unreduced: <100 g/L; 0.71 lb/gal mixed
Zinc Content in Dry Film:	90.3% by weight
Mix Ratio:	3 components, premeasured 3.25 gallons (12.3L) total

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)	**190** (4.6)	**320** (7.8)
Theoretical coverage **sq ft/gal** (m^2/L) @ 1 mil / 25 microns dft	**960** (23.5)	

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

Drying Schedule @ 5.0 mils wet (125 microns):

	@ 40°F/4.5°C	@ 77°F/25°C *50% RH*	@ 120°F/49°C
To touch:	45 minutes	30 minutes	10 minutes
To handle:	2 hours	1 hour	30 minutes
To recoat*:			
minimum:	4 hours	2 hours	1 hour
maximum:	1 year	1 year	1 year
To cure:	10 days	7 days	5 days

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

*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.

Pot Life:	6 hours	4 hours	2 hours
Sweat-in-Time:	1 hour	30 minutes	15 minutes

Shelf Life:	Parts A, B, & F: 24 months, unopened Store indoors at 40°F (4.5°C) to 100°F (38°C)
Flash Point:	60°F (16°C), PMCC, mixed
Reducer/Clean Up:	R7K111 or R6K10

RECOMMENDED USES

For use over properly prepared blasted steel.

- Fabrication Shops
- Bridge and Highway Structures
- Stadiums and Sports Complexes
- Drilling Rigs
- Piping
- Refineries
- Barges and Ships
- Wind Towers - onshore and offshore
- Shop or Field Applications
- Not recommended for immersion service.

PERFORMANCE CHARACTERISTICS

Substrate*: Steel

Surface Preparation*: SSPC-SP10/NACE 2

System Tested*:

1 ct. Zinc Clad III HS @ 5.0 mils (125 microns) dft
1 ct. Macropoxy 646 @ 5.0-10.0 mils (125-250 microns) dft
1 ct. Acrolon 218 HS @ 5.0 mils (125 microns) dft

*unless otherwise noted below

Test Name	Test Method	Results
Adhesion	ASTM D4541	975 psi
Corrosion Weathering	ASTM D5894, 13 cycles, 2016 hours	Rating 10 per ASTM D610 for rusting; Rating 10 per ASTM D714 for blistering
Dry Heat Resistance (zinc only)	ASTM D2485	300°F (149°C)
Moisture Condensation Resistance	ASTM D4585, 100°F, 4000 hours	Rating 10 per ASTM D610 for rusting; Rating 10 per ASTM D714 for blistering
Pencil Hardness (zinc only)	ASTM D3363	2H
Salt Fog Resistance	ASTM B117, 4500 hours	Rating 10 per ASTM D610 for rusting; Rating 10 per ASTM D714 for blistering
Slip Coefficient* (zinc only)	AISC Specifications for Structural Joints using ASTM A325 or ASTM A490 Bolts	Class B, 0.51

Complies with ISO 12944-5 C5I and C5M requirements.

*Refer to Slip Certification document