# SIGMAZINC<sup>™</sup> 68 SP / AMERCOAT® 68 SP

### DESCRIPTION

Two-component, high solids polyamine adduct cured zinc rich epoxy primer

### **PRINCIPAL CHARACTERISTICS**

- · Designed as a system primer in various paint systems for aggressive environments
- Excellent anticorrosive properties
- Quick-drying, can be overcoated after a short interval
- · Very good primer for systems with high solids epoxy buildcoats
- Complies with the compositional requirements of ISO 12944–5
- Meets the requirements of Norsok M-501 rev. 6, System 1

### **COLOR AND GLOSS LEVEL**

- Reddish gray
- Flat

### BASIC DATA AT 20°C (68°F)

Data for mixed product	
Number of components	Тwo
Mass density	3.0 kg/l (25.0 lb/US gal)
Volume solids	70 ± 2%
VOC (Supplied)	Directive 1999/13/EC, SED: max. 106.0 g/kg max. 310.0 g/l (approx. 2.6 lb/US gal) EPA Method 24: 300.0 g/ltr (2.5 lb/USgal)
Recommended dry film thickness	50 - 100 µm (2.0 - 4.0 mils) depending on system
Theoretical spreading rate	11.7 m²/l for 60 µm (468 ft²/US gal for 2.4 mils)
Dry to touch	3 hours
Overcoating Interval	Minimum: 3 hours See overcoating tables
Full cure after	7 days
Shelf life	Base: at least 24 months when stored cool and dry Hardener: at least 24 months when stored cool and dry

Notes:

- See ADDITIONAL DATA Spreading rate and film thickness
- See ADDITIONAL DATA Overcoating intervals
- See ADDITIONAL DATA Curing time



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### **RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES**

#### Immersion exposure

- Steel; blast cleaned to ISO-Sa2½ (SSPC SP-10), blasting profile 40 70 μm (1.6 2.8 mils)
- Steel with approved zinc silicate shop primer; pretreated according to ISO-Sa1 (SPSS-SP7)

### Atmospheric exposure conditions

- Steel; blast cleaned to ISO-Sa2½ or minimum SSPC SP-6, blasting profile 40 70 μm (1.6 2.8 mils)
- Steel with approved zinc silicate shop primer; pretreated according to ISO-Sa1 (SPSS-SP7) or power tool cleaned to ISO-St3 (SSPC SP3)

### Substrate temperature

- Substrate temperature during application and curing should be above 5°C (41°F)
- Substrate temperature during application and curing should be at least 3°C (5°F) above dew point

### **INSTRUCTIONS FOR USE**

### Mixing ratio by volume: base to hardener 90:10 (9:1)

- The temperature of the paint should preferably be above 15°C (59°F), otherwise extra thinner may be required to obtain application viscosity
- Adding too much thinner results in reduced sag resistance
- Thinner should be added after mixing the components

### Induction time

None

Pot life 8 hours at 20°C (68°F)

### <u>Air spray</u>

Recommended thinner THINNER 91-92

Volume of thinner 0 - 5%, depending on required thickness and application conditions

Nozzle orifice 1.5 – 2.5 mm (approx. 0.060 – 0.100 in)

### Nozzle pressure

0.3 - 0.6 MPa (approx. 3 - 6 bar; 44 - 87 p.s.i.)



### PRODUCT DATA SHEET

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### Airless spray

### Recommended thinner THINNER 91-92

**Volume of thinner** 0 - 5%, depending on required thickness and application conditions

**Nozzle orifice** Approx. 0.43 – 0.48 mm (0.017 – 0.019 in)

Nozzle pressure 20.0 MPa (approx. 200 bar; 2901 p.s.i.)

### Brush/roller

Recommended thinner THINNER 91-92

### Volume of thinner

0-5%

### Cleaning solvent

THINNER 90-53

### **ADDITIONAL DATA**

Spreading rate and film thickne	ess
DFT	Theoretical spreading rate
60 µm (2.4 mils)	11.7 m²/l (468 ft²/US gal)
100 µm (4.0 mils)	7.0 m²/l (281 ft²/US gal)



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Overcoating interval for DFT up to 60 μm (2.4 mils)						
Overcoating with	Interval	10°C (50°F)	20°C (68°F)	30°C (86°F)	40°C (104°F)	
subsequent coating	Minimum	6 hours	3 hours	2 hours	1 hour	
	Maximum	3 months	3 months	3 months	3 months	

Notes:

- Zinc rich primers can form zinc salts on the surface; preferably they should not be weathered for long periods before overcoating
- An interval of several months can be allowed under clean interior exposure conditions
- In clean exterior conditions, a maximum interval of 3 months can be tolerated, but in industrial or marine conditions this interval should be reduced to the practical minimum
- Before overcoating visible surface contamination must be removed by high-pressure water cleaning, sweep blasting or mechanical cleaning

Curing time for DFT up to 60 μm (2.4 mils)						
Substrate temperature	Dry to touch	Dry to handle	Full cure			
10°C (50°F)	6 hours	8 hours	20 days			
15°C (59°F)	4 hours	5 hours	10 days			
20°C (68°F)	3 hours	4 hours	7 days			
30°C (86°F)	1.5 hours	2 hours	5 days			

Note: Adequate ventilation must be maintained during application and curing (please refer to INFORMATION SHEETS 1433 and 1434)

### SAFETY PRECAUTIONS

- For paint and recommended thinners see INFORMATION SHEETS 1430, 1431 and relevant Material Safety Data Sheets
- This is a solvent-borne paint and care should be taken to avoid inhalation of spray mist or vapor, as well as contact between the wet paint and exposed skin or eyes

### WORLDWIDE AVAILABILITY

It is always the aim of PPG Protective and Marine Coatings to supply the same product on a worldwide basis. However, slight modification of the product is sometimes necessary to comply with local or national rules/circumstances. Under these circumstances an alternative product data sheet is used.



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### REFERENCES

•	EXPLANATION TO PRODUCT DATA SHEETS	INFORMATION SHEET	1411
•	SAFETY INDICATIONS	INFORMATION SHEET	1430
•	SAFETY IN CONFINED SPACES AND HEALTH SAFETY, EXPLOSION HAZARD -	INFORMATION SHEET	1431
	TOXIC HAZARD		
•	SAFE WORKING IN CONFINED SPACES	INFORMATION SHEET	1433
•	DIRECTIVES FOR VENTILATION PRACTICE	INFORMATION SHEET	1434
•	CLEANING OF STEEL AND REMOVAL OF RUST	INFORMATION SHEET	1490

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