### DESCRIPTION

Two-component, high solids polyamide cured zinc rich epoxy primer

### **PRINCIPAL CHARACTERISTICS**

- · Very good primer for systems with high solids epoxy buildcoats
- Can also be used as a system primer for various other paint systems
- Good anticorrosive properties
- Quick-drying, can be overcoated after a short interval
- Complies with SSPC-Paint 20

### **COLOR AND GLOSS LEVEL**

- Gray, redbrown
- Flat

## BASIC DATA AT 20°C (68°F)

Data for mixed product	
Number of components	Two
Mass density	2.4 kg/l (20.0 lb/US gal)
Volume solids	66 ± 2%
VOC (Supplied)	Directive 1999/13/EC, SED: max. 120.0 g/kg max. 286.0 g/l (approx. 2.4 lb/US gal)
Recommended dry film thickness	60 - 150 μm (2.4 - 6.0 mils) depending on system
Theoretical spreading rate	11.0 m²/l for 60 µm (441 ft²/US gal for 2.4 mils)
Dry to touch	2 hours
Overcoating Interval	Minimum: 6 hours Maximum: 3 months
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

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

#### Immersion exposure

- Steel; shot blast cleaned to ISO-Sa2½, blasting profile 40 70 μm (1.6 2.8 mils)
- Steel with approved zinc silicate shop primer; sweep blasted to SPSS-Ss



### Atmospheric exposure conditions

- Steel; blast cleaned to ISO-Sa2½, blasting profile 40 70 μm (1.6 2.8 mils)
- Steel with approved zinc silicate shop primer; sweep blasted to SPSS-Ss or power tool cleaned to SPSS-Pt3

### Substrate temperature and application conditions

- 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 80:20 (4:1)

- The temperature of the mixed base and hardener 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 and slower cure
- Thinner should be added after mixing the components

### Induction time

None

Pot life 8 hours at 20°C (68°F)

#### Air spray

Recommended thinner THINNER 91-92

**Volume of thinner** 5 - 15%, depending on required thickness and application conditions

**Nozzle orifice** 1.8 – 2.2 mm (approx. 0.070 – 0.087 in)

### Nozzle pressure

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



## Airless spray

**Recommended thinner** THINNER 91-92

**Volume of thinner** 0 - 10%, depending on required thickness and application conditions

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

Nozzle pressure 15.0 MPa (approx. 150 bar; 2176 p.s.i.)

### **Brush/roller**

**Recommended thinner** THINNER 91-92

Volume of thinner 0 - 10%

### **Cleaning solvent** THINNER 90-53

### **ADDITIONAL DATA**

Spreading rate and film thickness			
DFT	Theoretical spreading rate		
60 µm (2.4 mils)	11.0 m²/l (441 ft²/US gal)		
75 µm (3.0 mils)	8.8 m²/l (353 ft²/US gal)		
100 µm (4.0 mils)	6.6 m²/l (265 ft²/US gal)		
150 µm (6.0 mils)	4.4 m²/l (176 ft²/US gal)		



Overcoating interval for DFT up to 100 μm (4.0 mils)						
Overcoating with	Interval	10°C (50°F)	20°C (68°F)	30°C (86°F)	40°C (104°F)	
subsequent coating	Minimum	10 hours	6 hours	4 hours	3 hours	
	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 industrial or marine conditions or if a long recoat interval is required, it is recommended to apply a suitable sealer direct after the minimum recoating interval
- Before overcoating any visible surface contamination must be removed by high-pressure water cleaning, sand washing, sweep blasting or mechanical cleaning

Curing time for DFT up to 100 µm (4.0 mils)						
Substrate temperature	Dry to touch	Dry to handle	Full cure			
10°C (50°F)	5 hours	6 hours	20 days			
15°C (59°F)	3 hours	4 hours	10 days			
20°C (68°F)	2 hours	3 hours	7 days			
30°C (86°F)	1 hour	1.5 hours	5 days			

#### Notes:

- SIGMAZINC 102 HS can be applied at temperatures between 5°C (41°F) and 10°C (50°F), but the curing rate will be very slow
- For such applications alternative zinc rich primers are recommended: SIGMAZINC 19 or SIGMAFAST 302
- 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.



### REFERENCES

•	CONVERSION TABLES	INFORMATION SHEET	1410
•	EXPLANATION TO PRODUCT DATA SHEETS	INFORMATION SHEET	1411
•	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
•	SPECIFICATION FOR MINERAL ABRASIVES	INFORMATION SHEET	1491
•	RELATIVE HUMIDITY – SUBSTRATE TEMPERATURE – AIR TEMPERATURE	INFORMATION SHEET	1650

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