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This information is not exhaustive and it is the user's responsibility to ensure that this data sheet is the most current by contacting their local New Guard Coatings Group branch prior to using the coating/product.

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### DESCRIPTION

Two-component, surface-tolerant, high-build polyamine-cured epoxy primer/coating

### **PRINCIPAL CHARACTERISTICS**

- Epoxy mastic
- Surface tolerant coating for lower grade of steel preparation
- Particularly suited as maintenance coating for dry cargo holds, decks and hulls
- General-purpose epoxy buildcoat or finish in protective coating systems, for steel and concrete structures exposed to atmospheric land or marine conditions
- · Compatible with various aged coatings
- Overcoatable with most types of coatings
- Excellent corrosion resistance
- Resistant to splash and spillage of a wide range of chemicals
- Good flexibility

### **COLOR AND GLOSS LEVEL**

- Green, gray, redbrown, black, aluminum
- Semi-gloss

### BASIC DATA AT 20°C (68°F)

Data for mixed product	
Number of components	Тwo
Mass density	1.4 kg/l (11.7 lb/US gal)
Volume solids	83 ± 2%
VOC (Supplied)	Directive 1999/13/EC, SED: max. 166.0 g/kg max. 232.0 g/l (approx. 1.9 lb/US gal)
Recommended dry film thickness	60 - 200 µm (2.4 - 8.0 mils) depending on requirements
Theoretical spreading rate	6.6 m²/l for 125 μm (266 ft²/US gal for 5.0 mils) 4.2 m²/l for 200 μm (166 ft²/US gal for 8.0 mils)
Dry to touch	6 hours
Overcoating Interval	Minimum: 9 hours See overcoating tables
Full cure after	7 days
Shelf life	Base: at least 12 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**

#### Atmospheric exposure conditions

- Steel; blast cleaned to ISO-Sa21/2, for excellent corrosion protection
- Steel; blast cleaned to ISO-Sa2, blasting profile 40 70 μm (1.6 2.8 mils) or power tool cleaned to ISO-St2 for good corrosion protection
- Shop primed steel; pretreated to SPSS-Pt3
- Coated steel; hydrojetted to VIS WJ2/3L
- · Existing sound coating systems; sufficiently roughened, dry and cleaned

### Immersion in water with cathodic protection

- 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
- First coat SIGMACOVER 630 aluminum

#### Substrate temperature

- Substrate temperature during application and curing should be above 10°C (50°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 83:17

- 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 2 hours at 20°C (68°F)

Note: See ADDITIONAL DATA - Pot life



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

Recommended thinner THINNER 91-92

**Volume of thinner** 5 - 10%, depending on required thickness and application conditions

**Nozzle orifice** 1.8 – 2.0 mm (approx. 0.070 – 0.079 in)

**Nozzle pressure** 0.3 - 0.4 MPa (approx. 3 - 4 bar; 44 - 58 p.s.i.)

### <u>Airless spray</u>

Recommended thinner THINNER 91-92

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

**Nozzle orifice** Approx. 0.48 – 0.53 mm (0.019 – 0.021 in)

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

### **Brush/roller**

Recommended thinner THINNER 91-92

Volume of thinner

0 - 5%

### **ADDITIONAL DATA**

Spreading rate and film thickness for brush/roller		
DFT	Theoretical spreading rate	
60 µm (2.4 mils)	13.8 m²/l (555 ft²/US gal)	
100 µm (4.0 mils)	8.3 m²/l (333 ft²/US gal)	

Note: Maximum DFT when brushing: 100 µm (4.0 mils)



Spreading rate and film thickness for airless spray		
DFT	Theoretical spreading rate	
125 µm (5.0 mils)	6.6 m²/l (266 ft²/US gal)	
200 µm (8.0 mils)	4.2 m²/l (166 ft²/US gal)	

Overcoating interval for DFT up to 150 μm (6.0 mils)					
Overcoating with	Interval	10°C (50°F)	20°C (68°F)	30°C (86°F)	40°C (104°F)
itself	Minimum	20 hours	9 hours	5 hours	3 hours
	Maximum	12 months	9 months	6 months	3 months
various two-component	Minimum	20 hours	9 hours	5 hours	3 hours
epoxy coatings	Maximum	6 months	3 months	1 month	1 month

Notes:

- Surface should be dry and free from any contamination
- For polyurethane paints the minimum overcoating time should be raised with 100%

Overcoating interval for DFT up to 150 μm (6.0 mils)					
Overcoating with	Interval	10°C (50°F)	20°C (68°F)	30°C (86°F)	40°C (104°F)
various alkyds	Minimum	24 hours	16 hours	8 hours	5 hours
	Maximum	21 days	10 days	7 days	3 days

Notes:

- After exceeding of the maximum interval, glossy finishes require a corresponding undercoat
- Surface should be dry and free from any contamination
- Best intercoat adhesion occurs when the subsequent coat is applied before the preceding coat is fully cured
- If this time is exceeded it may be necessary to roughen the surface

Curing time for DFT up to 150 μm (6.0 mils)				
Substrate temperature	Dry to touch	Dry to handle	Full cure	
10°C (50°F)	14 hours	20 hours	15 days	
20°C (68°F)	6 hours	9 hours	7 days	
30°C (86°F)	4 hours	5 hours	4 days	
40°C (104°F)	2 hours	3 hours	48 hours	

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



Pot life (at application viscosity)		
Mixed product temperature	Pot life	
15°C (59°F)	3 hours	
20°C (68°F)	2 hours	
30°C (86°F)	1 hour	
40°C (104°F)	30 minutes	

### 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 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
SPECIFICATION FOR MINERAL ABRASIVES	INFORMATION SHEET	1491
RELATIVE HUMIDITY – SUBSTRATE TEMPERATURE – AIR TEMPERATURE	INFORMATION SHEET	1650

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