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### **DESCRIPTION**

Two-component, high solids, high-build, polyamide cured epoxy coating

### PRINCIPAL CHARACTERISTICS

- General-purpose epoxy buildcoat in protective coating systems, for steel and concrete structures exposed to atmospheric land or marine conditions
- Excellent durability
- · Can be recoated with various two-component and conventional coatings, even after long weathering periods
- · Easy application by airless spray
- Available in MIO or conventional pigmented grade

# **COLOR AND GLOSS LEVEL**

- MIO and a selected range of colors
- Flat

# BASIC DATA AT 20°C (68°F)

Data for mixed product	
Number of components	Two
Mass density	1.5 kg/l (12.5 lb/US gal), depending on color MIO: 1.9 kg/l (15.9 lb/US gal)
Volume solids	80 ± 2%
VOC (Supplied)	Directive 1999/13/EC, SED: max. 126.0 g/kg UK PG 6/23(92) Appendix 3: max. 240.0 g/l (approx. 2.0 lb/US gal)
Recommended dry film thickness	75 - 200 µm (3.0 - 8.0 mils) depending on system
Theoretical spreading rate	10.7 m²/l for 75 μm (428 ft²/US gal for 3.0 mils)
Dry to touch	3 hours
Overcoating Interval	Minimum: 8 hours Maximum: Extended
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

# **Substrate conditions**

- Suitable primer must be dry and free from any contamination
- · When applied to zinc silicate, a mist coat and full coat technique is required

### 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 80:20 (4:1)

- 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 and slower cure
- Thinner should be added after mixing the components

### Induction time

None

### Pot life

6 hours at 20°C (68°F)

Note: See ADDITIONAL DATA - Pot life

# **Air spray**

## **Recommended thinner**

**THINNER 91-92** 

# **Volume of thinner**

0 - 10%, depending on required thickness and application conditions

# **Nozzle orifice**

1.7 - 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.)

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## **Airless spray**

# **Recommended thinner**

THINNER 91-92

### Volume of thinner

0 - 10%, 30 - 40% when mist coat applied

### **Nozzle orifice**

Approx. 0.46 - 0.53 mm (0.018 - 0.021 in)

## Nozzle pressure

20.0 - 25.0 MPa (approx. 200 - 250 bar; 2901 - 3626 p.s.i.)

# **Brush/roller**

- Application by brush may show brush marking, due to the thixotropic nature of the paint and is most suitable to small areas, tight angle areas or for stripe coating or touch-up
- · Application by roller will leave roller marking and is suitable for minimum DFT requirements only
- · A roller suitable for epoxy application must be used

### **Recommended thinner**

THINNER 91-92

## **Volume of thinner**

0 - 5%

## **Cleaning solvent**

THINNER 90-53

### **ADDITIONAL DATA**

Spreading rate and film thickness		
DFT	Theoretical spreading rate	
75 μm (3.0 mils)	10.7 m²/l (428 ft²/US gal)	
150 µm (6.0 mils)	5.3 m²/l (214 ft²/US gal)	
200 μm (8.0 mils)	4.0 m²/l (160 ft²/US gal)	



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Overcoating interval for DFT up to 200 μm (8.0 mils)						
Overcoating with	Interval	5°C (41°F)	10°C (50°F)	20°C (68°F)	30°C (86°F)	40°C (104°F)
various two-pack epoxy and polyurethane coatings	Minimum Maximum	36 hours Extended	24 hours Extended	8 hours Extended	6 hours Extended	4 hours Extended

### Notes:

- This product has an unlimited overcoating interval provided the surface is free from chalking and other contaminations
- The optimum intercoat adhesion is obtained when the subsequent coating is applied before the full cure time of the previous coating has elapsed
- In cases of exposure to direct sunlight or when the surface is contaminated it is recommended that the surface be cleaned and roughened to ensure good adhesion of the subsequent coating.

Curing time for DFT up to 200 µm (8.0 mils)				
Substrate temperature	Dry to touch	Dry to handle	Full cure	
5°C (41°F)	12 hours	30 hours	20 days	
10°C (50°F)	6 hours	24 hours	14 days	
15°C (59°F)	4 hours	10 hours	10 days	
20°C (68°F)	3 hours	8 hours	7 days	
30°C (86°F)	2 hours	6 hours	5 days	
40°C (104°F)	1.5 hours	4 hours	3 days	

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		
10°C (50°F)	12 hours		
15°C (59°F)	10 hours		
20°C (68°F)	6 hours		
25°C (77°F)	4 hours		
30°C (86°F)	3 hours		
40°C (104°F)	2 hours		

## **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

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### **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**

<ul> <li>EXPLANATION TO PRODUCT DATA SHEETS</li> <li>SAFETY INDICATIONS</li> <li>SAFETY IN CONFINED SPACES AND HEALTH SAFETY, EXPLOSION HAZARD – TOXIC HAZARD</li> </ul>	INFORMATION SHEET INFORMATION SHEET INFORMATION SHEET	1411 1430 1431
<ul> <li>SAFE WORKING IN CONFINED SPACES</li> <li>DIRECTIVES FOR VENTILATION PRACTICE</li> <li>CONVERSION TABLES</li> <li>RELATIVE HUMIDITY - SUBSTRATE TEMPERATURE - AIR TEMPERATURE</li> </ul>	INFORMATION SHEET INFORMATION SHEET INFORMATION SHEET INFORMATION SHEET	1433 1434 1410 1650

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