#### **DESCRIPTION**

Two-component, high solids epoxy coating

#### **PRINCIPAL CHARACTERISTICS**

- Low-temperature curing down to 0°C (32°F)
- · High performance self priming universal epoxy
- High solids, low VOC
- · Surface tolerant and abrasion resistant
- · Compatible with prepared, damp surfaces
- Good adhesion on most existing coatings
- · Good resistance to splash and spillage of chemicals

#### **COLOR AND GLOSS LEVEL**

- · Standard primer colors and custom colors
- Semi-gloss

#### Note:

- Epoxy coatings will characteristically chalk and fade upon exposure to sunlight. Light colors are prone to ambering to some extent in interior or exterior exposures.

#### BASIC DATA AT 20°C (68°F)

Data for mixed product		
Number of components	Two	
Mass density	1.4 kg/l (11.7 lb/US gal)	
Volume solids	85 ± 2%	
VOC (Supplied)	Directive 1999/13/EC, SED: max. 114.0 g/kg max. 163.0 g/l (approx. 1.4 lb/US gal) EPA Method 24: 1.5 lb/US gal (180.0 g/l)	
Temperature resistance (Continuous)	To 120°C (250°F)	
Temperature resistance (Intermittent)	To 175°C (350°F)	
Recommended dry film thickness	100 - 200 μm (4.0 - 8.0 mils)	
Theoretical spreading rate	8.5 m²/l for 100 μm (341 ft²/US gal for 4.0 mils)	
Dry to handle	5 hours	
Overcoating Interval	See overcoating tables	
Shelf life	Base: at least 36 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
- Intermittent temperature resistance should be less than 5% of the time, and maximum 24 hours

#### RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

· Apply this product to the specified thickness as soon as possible after the surface is prepared

#### **Carbon steel**

- Steel; blast cleaned to ISO-Sa2, blasting profile 40 70 μm (1.6 2.8 mils) or power tool cleaned to minimum ISO-St2 for good corrosion protection
- Steel; hydrojetted to VIS WJ2/3L

### **Concrete / Masonry**

- Remove grease, oil and other penetrating contaminants according to ASTM D4258
- Abrade the surface per ASTM D4259 to remove all chalk and surface glaze or laitance. Achieve surface profile -ICRI CSP 3 to 5
- Alternatively, ASTM D4944 (Calcium Carbide Gas method) can be used where moisture content should not exceed 4%

## **Galvanized steel**

- Lightly abrasive blast with a fine abrasive in accordance with SSPC SP-16 guidelines to achieve a profile of 40 75
   µm (1.5 3.0 mils). When light abrasive blasting is not possible, galvanizing can be treated with a suitable zinc
   phosphate conversion coating
- Galvanizing that has had at least 12 months of exterior weathering may be coated after power washing to remove all
  contaminants and white rust

# Non-ferrous metals and stainless steel

- · Remove all rust, dirt, moisture, grease or other contaminants from the surface
- Lightly abrasive blast with a fine abrasive in accordance with SSPC-SP16 guidelines to achieve a profile of 40 100
   µm (1.5 4.0 mils)

#### **Aged coatings and repairs**

- Aged suitable coating must be dry and free from any contamination
- · For single-pack coatings, extra precautions are necessary

### Substrate temperature

- Substrate temperature during application and curing should be between 0°C (32°F) and 50°C (122°F)
- Substrate temperature during application and curing should be at least 3°C (5°F) above dew point

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#### **INSTRUCTIONS FOR USE**

#### Mixing ratio by volume: base to hardener 1:1

- The paint should be stirred well before use, preferably by means of a mechanical mixer, to ensure homogeneity
- Add hardener to base and continue stirring until homogeneous

# Pot life

2 hours at 10°C (50°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

# <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 mm (0.019 in)

# Nozzle pressure

15.0 - 18.0 MPa (approx. 150 - 180 bar; 2176 - 2611 p.s.i.)

# **Brush/roller**

- Apply evenly using a well-loaded brush or roller
- Application by brush or roller will provide approximately 80 μm (3.1 mils) DFT in a single-coat application

# **Cleaning solvent**

• THINNER 90-53 or THINNER 21-06

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#### **ADDITIONAL DATA**

Spreading rate and film thickness			
DFT	Theoretical spreading rate		
100 μm (4.0 mils)	8.5 m²/l (341 ft²/US gal)		
125 µm (5.0 mils)	6.8 m²/l (273 ft²/US gal)		
200 μm (8.0 mils)	4.3 m <sup>2</sup> /l (170 ft <sup>2</sup> /US gal)		

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)	
itself and various two-pack epoxy coatings	Minimum Maximum	24 hours 1 month	12 hours 1 month	6 hours 1 month	3 hours 1 month	
urethane and PSX	Minimum Maximum	24 hours 14 days	12 hours 14 days	6 hours 7 days	3 hours 48 hours	

### Notes:

- Surface should be dry and free from any contamination
- Alkyd coatings and waterborne acrylic coatings should be applied after the film is dry to handle and not greater than three times dry to handle time
- If maximum recoat time has been exceeded, roughen surfaces
- Maximum recoating time is highly dependent upon actual surface temperature not simply air temperatures. Sunexposed or otherwise heated surface will shorten the maximum recoat window

Curing time for DFT up to 200 µm (8.0 mils)					
Substrate temperature	Dry to handle	Full cure			
0°C (32°F)	38 hours	21 days			
10°C (50°F)	14 hours	7 days			
20°C (68°F)	5 hours	4 days			
30°C (86°F)	3 hours	3 days			

# Note:

- Adequate ventilation must be maintained during application and curing

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Pot life (at application viscosity)				
Mixed product temperature	Pot life			
0°C (32°F)	4 hours			
10°C (50°F)	2 hours			
20°C (68°F)	1 hour			
30°C (86°F)	30 minutes			

#### **SAFETY PRECAUTIONS**

- See Safety Data Sheet and product label for complete safety and precaution requirements
- 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 & 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**

Information sheet | Explanation of product data sheets

#### **WARRANTY**

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