# **DESCRIPTION**

Two-component, high solids epoxy coating

#### **PRINCIPAL CHARACTERISTICS**

- Aluminum containing surface tolerant maintenance coating
- · Compatibility with a wide range of substrates and surface preparations
- High solids, low VOC
- Can be overcoated with a wide range of topcoats
- · Good adhesion on most existing coatings
- Good resistance to splash and spillage of chemicals

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

- Aluminum
- · Semi-gloss

# BASIC DATA AT 20°C (68°F)

Data for mixed product	
Number of components	Two
Mass density	1.3 kg/l (10.8 lb/US gal)
Volume solids	85 ± 2%
VOC (Supplied)	Directive 1999/13/EC, SED: max. 157.0 g/kg max. 150.0 g/l (approx. 1.3 lb/US gal)
Recommended dry film thickness	125 μm (5.0 mils) per coat
Theoretical spreading rate	6.8 m $^2$ /I for 125 $\mu$ m (273 ft $^2$ /US gal for 5.0 mils)
Dry to touch	6 hours
Overcoating Interval	Minimum: 16 hours
Full cure after	7 days
Shelf life	Base: at least 36 months when stored cool and dry Hardener: at least 36 months when stored cool and dry

# Notes:

- See ADDITIONAL DATA Overcoating intervals
- See ADDITIONAL DATA Curing time

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#### RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

#### **Substrate conditions**

- Steel; blast cleaned to ISO-Sa2½, 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 / SSPC-SP3
- · Coated steel; hydrojetted to VIS WJ2/3L
- · Existing sound coating systems; sufficiently roughened, dry and cleaned
- For immersion exposure: steel; blast cleaned to ISO-Sa21/2

#### Substrate temperature and application conditions

- Surface temperature during application should be between 5°C (41°F) and 60°C (140°F)
- Surface temperature during application should be at least 3°C (5°F) above dew point
- Ambient temperature during application and curing should be between 5°C (41°F) and 50°C (122°F)
- Relative humidity during application and curing should not exceed 90%

# **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
- · The thinner should be added after mixing the two components
- · Adding too much thinner results in reduced sag resistance and slower cure

#### Pot life

4 hours at 20°C (68°F)

### Note:

- See ADDITIONAL DATA - Pot life

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# Air spray

#### **Recommended thinner**

**THINNER 91-92** 

#### Volume of thinner

0 - 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.)

### **Airless spray**

# **Recommended thinner**

No extra thinner needed

#### **Nozzle orifice**

Approx. 0.48 - 0.53 mm (0.019 - 0.021 in)

# Nozzle pressure

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

# **Brush/roller**

- Brush: apply evenly using a clean, well-loaded brush
- 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 90-58 (AMERCOAT 12)

### **ADDITIONAL DATA**

Spreading rate and film thickness		
DFT	Theoretical spreading rate	
125 µm (5.0 mils)	6.8 m²/l (273 ft²/US gal)	

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Overcoating interval for DFT up to 125 µm (5.0 mils)						
Overcoating with	Interval	10°C (50°F)	20°C (68°F)	30°C (86°F)	40°C (104°F)	
itself	Minimum	24 hours	16 hours	8 hours	4 hours	
	Maximum	3 months	3 months	2 months	1 month	
polyurethanes	Minimum	36 hours	16 hours	8 hours	4 hours	
	Maximum	1 month	1 month	14 days	7 days	

# Note:

 An extended recoatable window may be allowable in some circumstances, please contact your PPG representative for more details

Curing time for DFT up to 125 μm (5.0 mils)					
Substrate temperature	Dry to touch	Dry to handle	Full cure		
10°C (50°F)	16 hours	3 days	21 days		
20°C (68°F)	6 hours	24 hours	7 days		
30°C (86°F)	4 hours	10 hours	4 days		
40°C (104°F)	2 hours	8 hours	3 days		

### Notes:

- Drying times are dependent on air and steel temperature, applied film thickness, ventilation and other environmental conditions
- Adequate ventilation must be maintained during application and curing

Pot life (at application viscosity)			
Mixed product temperature	Pot life		
10°C (50°F)	6 hours		
20°C (68°F)	4 hours		
30°C (86°F)	2 hours		
40°C (104°F)	1 hour		

# **SAFETY PRECAUTIONS**

• 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 & 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

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