### DESCRIPTION

Two-component, polyamide-cured epoxy anticorrosive tiecoat

#### **PRINCIPAL CHARACTERISTICS**

- Final coat in epoxy underwater anticorrosive systems
- Excellent water resistance
- Epoxy anticorrosive with excellent adhesion for antifoulings
- Good abrasion and impact resistance

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

- Black, gray
- Low sheen

# BASIC DATA AT 20°C (68°F)

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Data for mixed product	
Number of components	Тwo
Mass density	1.4 kg/l (11.7 lb/US gal)
Volume solids	56 ± 2%
VOC (Supplied)	Directive 2010/75/EU, SED: max. 276.0 g/kg max. 387.0 g/l (approx. 3.2 lb/US gal) China GB 38469-2019 (tested) 377.0 g/l (approx. 3.1 lb/gal)
Recommended dry film thickness	75 - 150 μm (3.0 - 6.0 mils) depending on system
Theoretical spreading rate	7.5 m²/l for 75 μm (299 ft²/US gal for 3.0 mils) 3.7 m²/l for 150 μm (150 ft²/US gal for 6.0 mils)
Dry to touch	6 hours
Overcoating Interval	Minimum: 8 hours Maximum: 3 days
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**

#### Substrate conditions

• Previous coat must be dry and free from any contamination

#### Substrate temperature and application conditions

- Substrate temperature during application and curing should be above -5°C (23°F)
- Substrate temperature during application and curing down to -5°C (23°F) is acceptable; provided the substrate is free from ice and dry
- 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 6.14:1

- 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

# Table of Induction time

Mixed product induction time			
Mixed product temperature	Induction time		
Below 10°C (50°F)	15 minutes		

# Pot life

4 hours at 20°C (68°F)

Note:

- See ADDITIONAL DATA - Pot life



#### Air spray

**Recommended thinner** 

THINNER 91-92

# **Volume of thinner**

0 - 5%, depending on required thickness and application conditions

### **Nozzle orifice**

1.5 - 2.0 mm (approx. 0.060 - 0.079 in)

### **Nozzle pressure**

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

#### Airless spray

#### **Recommended thinner**

THINNER 91-92

# Volume of thinner

0 - 5%, depending on required thickness and application conditions

# **Nozzle orifice**

Approx. 0.53 - 0.58 mm (0.021 - 0.023 in)

# Nozzle pressure

12.0 - 15.0 MPa (approx. 120 - 150 bar; 1741 - 2176 p.s.i.)

# **Brush/roller**

# **Recommended thinner**

THINNER 91-92

### **Volume of thinner**

Up to 5% THINNER 91-92 can be added if desired

#### **Cleaning solvent**

• THINNER 90-53



# **ADDITIONAL DATA**

Spreading rate and film thickness			
DFT	Theoretical spreading rate		
75 µm (3.0 mils)	7.5 m²/l (299 ft²/US gal)		
100 µm (4.0 mils)	5.6 m²/l (225 ft²/US gal)		
150 µm (6.0 mils)	3.7 m²/l (150 ft²/US gal)		

Note:

- Maximum DFT when brushing: 75 µm (3.0 mils)

Overcoating interval for DFT up to 150 μm (6.0 mils)								
Overcoating with	Interval	-5°C (23°F)	0°C (32°F)	5°C (41°F)	10°C (50°F)	20°C (68°F)	30°C (86°F)	40°C (104°F)
PPG antifoulings	Minimum	24 hours	24 hours	24 hours	12 hours	8 hours	6 hours	4 hours
	Maximum	10 days			4 days	3 dave	3 days	48 hours
	Maximum	10 days	5 days	5 days	4 days	3 days	3 days	48

Note:

- Surface should be dry and free from any contamination



Curing time for DFT up to 150 µm (6.0 mils)				
Substrate temperature	Service- water immersion	Full cure		
-5°C (23°F)	5 days	N/A		
5°C (41°F)	4 days	21 days		
10°C (50°F)	48 hours	15 days		
20°C (68°F)	24 hours	7 days		
30°C (86°F)	18 hours	5 days		

Notes:

- In exceptional cases SIGMACOVER 555 may be applied at lower substrate temperatures (down to -15°C (5°F)) provided that the surface is free from ice and other contamination. In such cases special care must be taken to avoid thick film application as this may lead to checking/crazing or solvent entrapment. It should be clear that application at lower temperatures will require additional thinning to obtain application viscosity, however this will affect the sag resistance of the applied coating and can induce solvent retention.Optimal curing and designed product properties will only be achieved when minimum required substrate temperature is reached
- Adequate ventilation must be maintained during application and curing

Pot life (at application viscosity)		
Mixed product temperature	Pot life	
5°C (41°F)	8 hours	
10°C (50°F)	6 hours	
20°C (68°F)	4 hours	
30°C (86°F)	2 hours	

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

# 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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