## **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
- Eggshell

## 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	56 ± 2%
VOC (Supplied)	Directive 1999/13/EC, SED: max. 276.0 g/kg max. 387.0 g/l (approx. 3.2 lb/US gal)
Recommended dry film thickness	75 - 150 μm (3.0 - 6.0 mils) depending on system
Theoretical spreading rate	7.5 m <sub>/</sub> I for 75 µm (299 ft <sub>/</sub> US gal for 3.0 mils) 3.7 m <sub>/</sub> I for 150 µm (150 ft <sub>/</sub> US gal for 6.0 mils)
Dry to touch	6 hours
Overcoating Interval	Minimum: 8 hours Maximum: 5 days
Full cure after	7 days
Shelf life	Base: at least 12 months when stored cool and dry Hardener: at least 12 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





Ref. 7905 Page 1/5

## 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 86:14

- 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

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.)





Ref. 7905 Page 2/5

## 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 m <sub>.</sub> /l (299 ft <sub>.</sub> /US gal)	
100 μm (4.0 mils)	5.6 m <sub>.</sub> /l (225 ft <sub>.</sub> /US gal)	
150 µm (6.0 mils)	3.7 m <sub>c</sub> /l (150 ft <sub>c</sub> /US gal)	

Note: Maximum DFT when brushing: 75  $\mu m$  (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	5 days	5 days	4 days	3 days	3 days	48 hours

Note: Surface should be dry and free from any contamination





Ref. 7905 Page 3/5

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:

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

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**

- 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.





Ref. 7905 Page 4/5

## **REFERENCES**

•	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

#### **WARRANTY**

PPG warrants (i) its title to the product, (ii) that the quality of the product conforms to PPG's specifications for such product in effect at the time of manufacture and (iii) that the product shall be delivered free of the rightful claim of any third person for infringement of any U.S., patent covering the product. THESE ARE THE ONLY WARRANTIES THAT PPG MAKES AND ALL OTHER EXPRESS OR IMPLIED WARRANTIES, UNDER STATUTE OR ARISING OTHERWISE IN LAW, FROM A COURSE OF DEALING OR USAGE OF TRADE, INCLUDING WITHOUT LIMITATION, ANY OTHER WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR USE, ARE DISCLAIMED BY PPG. Any claim under this warranty must be made by Buyer to PPG in writing within five (5) days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life of the product, or one year from the date of the delivery of the product to the Buyer, whichever is earlier. Buyer's failure to notify PPG of such non-conformance as required herein shall bar Buyer from recovery under this warranty.

## **LIMITATIONS OF LIABILITY**

IN NO EVENT WILL PPG BE LIABLE UNDER ANY THEORY OF RECOVERY (WHETHER BASED ON NEGLIGENCE OF ANY KIND, STRICT LIABILITY OR TORT) FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES IN ANY WAY RELATED TO, ARISING FROM, OR RESULTING FROM ANY USE MADE OF THE PRODUCT. The information in this sheet is intended for guidance only and is based upon laboratory tests that PPG believes to be reliable. PPG may modify the information contained herein at any time as a result of practical experience and continuous product development. All recommendations or suggestions relating to the use of the PPG product, whether in technical documentation, or in response to a specific inquiry, or otherwise, are based on data, which to the best of PPG's knowledge, is reliable. The product and related information is designed for users having the requisite knowledge and industrial skills in the industry and it is the end-user's responsibility to determine the suitability of the product for its own particular use and it shall be deemed that Buyer has done so, as its sole discretion and risk. PPG has no control over either the quality or condition of the substrate, or the many factors affecting the use and application of the product. Therefore, PPG does not accept any liability arising from any loss, injury or damage resulting from such use or the contents of this information (unless there are written agreements stating otherwise). Variations in the application environment, changes in procedures of use, or extrapolation of data may cause unsatisfactory results. This sheet shupers are such as a present of this information (unless there are written agreements stating otherwise). Variations in the application environment, changes in procedures of use, or extrapolation of data may cause unsatisfactory results. This sheet shupers are provided to this sheet shall prevail over any translation thereof.

The PPG Logo, Bringing innovation to the surface., and all other trademarks herein are property of the PPG group of companies.





Ref. 7905 Page 5/5