# DESCRIPTION

Two component, high solids epoxy tiecoat

### **PRINCIPAL CHARACTERISTICS**

- Final coat in epoxy underwater anticorrosive systems
- Epoxy tiecoat for use with PPG antifoulings as specified
- Suitable for sea water immersion on underwater structures and ships hulls
- Extended recoating intervals (see table)
- Easy application by airless spray and brush
- Meets VOC regulations for General Use category under Federal NESHAP for Shipbuilding and Repair regulations

# **COLOR AND GLOSS LEVEL**

- Redbrown, gray, black
- Low sheen

# BASIC DATA AT 68°F (20°C)

Data for mixed product	
Number of components	Two
Mass density	12.1 lb/US gal (1.4 kg/l)
Volume solids	72 ± 2%
VOC (Supplied)	max. 1.9 lb/US gal (approx. 222 g/l)
Recommended dry film thickness	5.0 - 8.0 mils (125 - 200 μm) depending on system
Theoretical spreading rate	1161 ft²/US gal for 1.0 mils (28.8 m²/l for 25 μm)
Dry to touch	1.5 hours
Overcoating Interval	Minimum: 6 hours Maximum: 48 hours
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: dry and free from any contamination



#### Substrate temperature

• Substrate temperature during application should be at least 5°F (3°C) above dew point

#### **INSTRUCTIONS FOR USE**

#### Mixing ratio by volume: base to hardener 80:20 (4:1)

- Power agitate each component to uniform consistency before combining, then again after combining. DO NOT vary portions
- When mixing the temperature of the base and hardener should be at least 60°F (15.6°C), otherwhise extra thinner may be required
- · Adding too much thinner results in reduced sag resistance
- Thinner should be added after mixing the components
- Relative humidity: maximum 85 %

#### Induction time

None

#### Pot life

5 hours at 68°F (20°C)

Note: See ADDITIONAL DATA - Pot life

#### <u>Air spray</u>

**Recommended thinner** THINNER 91-92 or THINNER T-10

**Volume of thinner** 0 - 5%, depending on required thickness and application conditions

#### Airless spray

Recommended thinner THINNER 91-92 or THINNER T-10

**Volume of thinner** 0 - 6%, depending on required thickness and application conditions

**Nozzle orifice** 0.019 – 0.021 in (approx. 0.48 – 0.53 mm)

# Nozzle pressure

2400 - 2700 p.s.i. (approx. 166 - 186 bar; 16.5 - 18.6 MPa)



### **Brush/roller**

**Recommended thinner** THINNER 91-92 or THINNER T-10

# Volume of thinner

Up to 5% THINNER can be added if desired

# Cleaning solvent

THINNER 90-53

# **ADDITIONAL DATA**

Spreading rate and film thickness				
DFT	Theoretical spreading rate			
5.0 mils (125 µm)	231 ft²/US gal (5.7 m²/l)			
6.0 mils (150 μm)	192 ft²/US gal (4.7 m²/l)			
8.0 mils (200 µm)	144 ft²/US gal (3.5 m²/l)			

Note: Maximum DFT when brushing: 4.0 mils (100  $\mu\text{m})$ 

Overcoating interval for DFT up to 8.0 mils (200 μm)								
Overcoating with	Interval	5°C (41°F)	10°C (50°F)	20°C (68°F)	30°C (86°F)			
PPG antifoulings	Minimum	24 hours	12 hours	6 hours	4 hours			
	Maximum	7 days	4 days	48 hours	24 hours			

Curing time for DFT up to 8.0 mils (200 μm)						
Substrate temperature	Dry to touch	Dry to handle	Full cure			
41°F (5°C)	4 hours	7 hours	7 days			
50°F (10°C)	2.5 hours	5 hours	5 days			
59°F (15°C)	2 hours	4.5 hours	4 days			
68°F (20°C)	1.5 hours	4 hours	3 days			
86°F (30°C)	1 hour	3 hours	48 hours			
104°F (40°C)	30 minutes	2 hours	36 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.

#### REFERENCES

XPLANATION TO PRODUCT DATA SHEETS	INFORMATION SHEET	1411
AFETY INDICATIONS	INFORMATION SHEET	1430
AFETY IN CONFINED SPACES AND HEALTH SAFETY, EXPLOSION HAZARD –	INFORMATION SHEET	1431
OXIC HAZARD		
AFE WORKING IN CONFINED SPACES	INFORMATION SHEET	1433
IRECTIVES FOR VENTILATION PRACTICE	INFORMATION SHEET	1434
	XPLANATION TO PRODUCT DATA SHEETS AFETY INDICATIONS AFETY IN CONFINED SPACES AND HEALTH SAFETY, EXPLOSION HAZARD – OXIC HAZARD AFE WORKING IN CONFINED SPACES IRECTIVES FOR VENTILATION PRACTICE	AFETY INDICATIONSINFORMATION SHEETAFETY IN CONFINED SPACES AND HEALTH SAFETY, EXPLOSION HAZARD -INFORMATION SHEETOXIC HAZARDAFE WORKING IN CONFINED SPACESINFORMATION SHEET

#### 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 supersedes all previous versions and it is the Buyer's responsibility to ensure that this information is current prior to using the product. Current sheets for all PPG Protective & Marine Coatings Products are maintained at www.ppgpmc.com. The English text of this sheet shall prevail over any translation thereof.

The PPG logo, and all other PPG marks are property of the PPG group of companies. All other third-party marks are property of their respective owners.

