DESCRIPTION

Universal epoxy anticorrosive primer, based upon pure epoxy technology

PRINCIPAL CHARACTERISTICS

- · Universal pure epoxy primer system suitable for Ballast Tanks, Decks, Topside, Superstructure and Hull
- Good abrasion resistance for dedicated areas of application
- · Good adhesion to steel and galvanized steel
- Good adhesion to non-ferrous metals
- · Good flow and wetting properties
- · Good water and corrosion resistance
- Cures at temperatures down to 5°C (41°F)
- · Suitable for touching up of weld seams and damages of epoxy coatings during construction
- · Excellent recoatability
- · Can be overcoated with most alkyd-, chlorinated rubber-, vinyl-, epoxy- and two-component polyurethane coatings
- · Compatible with well-designed cathodic protection systems
- Suitable on wet blast cleaned substrates (damp or dry)

COLOR AND GLOSS LEVEL

- · Gray, redbrown, yellow/green, green
- 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	70 ± 2%	
VOC (Supplied)	Directive 1999/13/EC, SED: max. 227.0 g/kg max. 313.0 g/l (approx. 2.6 lb/US gal)	
Recommended dry film thickness 100 - 200 μm (4.0 - 8.0 mils)		
Theoretical spreading rate7.0 m²/l for 100 μm (281 ft²/US gal for 4.0 mils) $3.5 m²/l$ for 200 μm (140 ft²/US gal for 8.0 mils)		
Dry to touch	2 hours	
Overcoating Interval	See overcoating tables	
Full cure after	7 days	

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Data for mixed product		
	Base: at least 12 months when stored cool and dry	
	Hardener: at least 24 months when stored cool and dry	

Notes:

- Mass Density (kg/l); Base 1,46 1,56 Hardener 0,96 0,99 Set 1,35 1,45
- See ADDITIONAL DATA Spreading rate and film thickness
- See ADDITIONAL DATA Overcoating intervals
- See ADDITIONAL DATA Curing time

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

Immersion exposure

- Steel or steel with not approved zinc silicate shop primer; blast cleaned to ISO-Sa2½, blasting profile 30 75 μm (1.2 3.0 mils)
- Steel with approved zinc silicate shop primer; weld seams and areas of damaged shop primer or breakdown should be blast cleaned to ISO-Sa2½, blasting profile 30 – 75 μm (1.2 – 3.0 mils) or power tool cleaned to SPSS-Pt3
- Coated steel; hydrojetted to VIS WJ2L (blasting profile 30 75 µm (1.2 3.0 mils))
- Previous coat must be dry and free from any contamination

IMO-MSC.215(82) Requirements for Water Ballast Tanks and IMO-MSC.288(87) for Cargo tanks of Crude Oil Tankers (specified areas only)

- Steel; ISO 8501-3:2006 grade P2, with all edges treated to a rounded radius of minimum 2 mm (0.079 in) or subject to three pass grinding or at least equivalent process before painting
- Steel or steel with not approved zinc silicate shop primer; blast cleaned to ISO-Sa2½, blasting profile 30 75 μm (1.2 3.0 mils)
- Steel with approved zinc silicate shop primer; weld seams and areas of shop primer damage or break down should be blast cleaned to Iso-Sa 2½ blasting profile 30 75 μm (1.2 3.0 mils): [1] For shop primer with IMO type approval; no additional requirements; [2] For shop primer without IMO type approval; blast cleaned to ISO-Sa2 removing at least 70% of intact shop primer, blasting profile 30 75 μm (1.2 3.0 mils)
- Dust quantity rating "1 for dust size class "3", "4" or "5", lower dust size classes to be removed if visible on the surface to be coated without magnification (ISO 8502-3:1992)
- Previous coat must be dry and free from any contamination

Atmospheric exposure conditions

- Steel; blast cleaned to ISO-Sa2½, blasting profile 30 75 μm (1.2 3.0 mils) or according to ISO-St3
- Shop primed steel; pretreated to SPSS-Pt3
- Existing pipelines may have to be cleaned first by scraper pigs and solvents
- · Galvanized steel must be sweep blasted or otherwise roughened
- Galvanized steel must be free from grease, salts and any contamination
- · Previous coat must be dry and free from any contamination

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Substrate temperature and application conditions

- Substrate temperature during application and curing should be at least 3°C (5°F) above dew point
- Substrate temperature during application and curing should be above 5°C (41°F)
- Relative humidity during application and curing should not exceed 85%

SYSTEM SPECIFICATION

- ANTICORROSIVE SYSTEMS FOR UNDERWATER AND BOOTTOP SYSTEM SHEET 3101
- SYSTEMS FOR BOOTTOP AND TOPSIDE SYSTEM SHEET 3102
- SYSTEMS FOR DECKS SYSTEM SHEET 3103
- SYSTEMS FOR SUPERSTRUCTURE AND DECK FITTINGS SYSTEM SHEET 3104
- SYSTEMS FOR INTERIOR(S) SYSTEM SHEET 3105
- SYSTEMS FOR BALLAST TANKS SYSTEM SHEET 3106 (spec. 1)
- SYSTEMS FOR CARGO HOLDS SYSTEM SHEET 3107
- MISCELLANEOUS SYSTEMS SYSTEM SHEET 3108

INSTRUCTIONS FOR USE

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

- 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

Induction time

None

Pot life

8 hours at 20°C (68°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

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.)

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Airless spray

Recommended thinner

THINNER 91-92

Volume of thinner

0 - 15%, depending on required thickness and application conditions

Nozzle orifice

Approx. 0.53 - 0.74 mm (0.021 - 0.029 in)

Nozzle pressure

15.0 MPa (approx. 150 bar; 2176 p.s.i.)

Brush/roller

Recommended thinner

No extra thinner is necessary

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	
100 μm (4.0 mils)	7.0 m²/l (281 ft²/US gal)	
125 µm (5.0 mils)	5.6 m²/l (225 ft²/US gal)	
160 µm (6.3 mils)	4.4 m²/l (178 ft²/US gal)	
200 μm (8.0 mils)	3.5 m²/l (140 ft²/US gal)	

Note: Max. dft: Dry Film Thickness of 2000 μ m (80.0 mils) may occur occasionally (minor areas) where multiple overlapping is unavoidable (i.e. around scallops, corners, erection joint lines etc.). PPG must be consulted in case of DFT readings fall outside this recommendation.

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Overcoating interval for DFT up to 160 μm (6.3 mils)						
Overcoating with	Interval	5°C (41°F)	10°C (50°F)	20°C (68°F)	30°C (86°F)	40°C (104°F)
various two-pack epoxy	Minimum	15 hours	9 hours	4 hours	2.5 hours	1.5 hours
coatings	Maximum exposed to direct sunshine	3 months	3 months	2 months	2 months	2 months
	Maximum NOT exposed to direct sunshine	6 months	6 months	6 months	4 months	3 months

Note: Surface should be dry and free from any contamination

Curing time for DFT up to 160 µm (6.3 mils)			
Substrate temperature	Dry to touch	Dry to handle	Full cure
5°C (41°F)	6 hours	18 hours	21 days
10°C (50°F)	4 hours	12 hours	14 days
15°C (59°F)	3 hours	9 hours	7 days
20°C (68°F)	2 hours	6 hours	5 days
30°C (86°F)	1 hour	3 hours	5 days

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

Pot life (at application viscosity)		
Mixed product temperature	Pot life	
15°C (59°F)	10 hours	
20°C (68°F)	8 hours	
30°C (86°F)	4 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.

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REFERENCES

CONVERSION TABLES	INFORMATION SHEET	1410
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
CLEANING OF STEEL AND REMOVAL OF RUST	INFORMATION SHEET	1490
SPECIFICATION FOR MINERAL ABRASIVES	INFORMATION SHEET	1491
RELATIVE HUMIDITY – SUBSTRATE TEMPERATURE – AIR TEMPERATURE	INFORMATION SHEET	1650
PPG PROTECTIVE & MARINE COATINGS' BALLAST TANK WORKING PROCEDURI	ES	
NEW-BUILDING		

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

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Depending on specific country of application the following versions are available:

Article code	Color	Reference
245824	grey	9515052150 (245344 base, 245346 hardener)
245825	redbrown	2008002150 (245345 base, 245346 hardener)
321760	green	4000002150 (321758 base, 245346 hardener)
267441	grey	5000002200 (267438 base, 267440 hardener)
267442	redbrown	2008002200 (267439 base, 267440 hardener)
269714	yellow/green	4009002200 (321758 base, 267440 hardener)
317126	redbrown	2008002200 (317121 base, 317124 hardener)
317127	grey	5000002200 (317122 base, 317124 hardener)
317128	yellow/green	4009002200 (317123 base, 317124 hardener)

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