DESCRIPTION

Universal High Solids Epoxy anticorrosive primer based upon pure epoxy technology

PRINCIPAL CHARACTERISTICS

- Universal pure epoxy primer system suitable for Ballast Tanks, Decks, Topside, Superstructure, Hull and Cargo Oil Tanks
- Good abrasion resistance for dedicated areas of application
- Good adhesion to steel and galvanized steel and non-ferrous metal
- · 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
- · Can be overcoated with most alkyd, epoxy and polyurethane coatings
- Compatible with well-designed cathodic protection systems

COLOR AND GLOSS LEVEL

- · Gray, yellow/green and redbrown
- Eggshell

BASIC DATA AT 20°C (68°F)

Data for mixed product		
Number of components	Two	
Mass density	1.5 kg/l (12.3 lb/US gal)	
Volume solids	83 ± 2%	
VOC (Supplied)	Directive 1999/13/EC, SED: max. 135.0 g/kg max. 199.0 g/l (approx. 1.66 lb/US gal) EPA Method 24: 174.0 g/ltr (1.5 lb/US gal)	
Recommended dry film thickness	100 - 250 μm (4.0 - 10.0 mils) depending on system	
Theoretical spreading rate	6.6 m²/l for 125 µm (266 ft²/US gal for 5.0 mils) 5.2 m²/l for 160 µm (211 ft²/US gal for 6.3 mils)	
Dry to touch	3 hours	
Full cure after	7 days	
Shelf life	Base: at least 12 months when stored cool and dry Hardener: at least 24 months when stored cool and dry	

Notes:

- See ADDITIONAL DATA Overcoating intervals
- See ADDITIONAL DATA Curing time
- See ADDITIONAL DATA Spreading rate and film thickness

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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
- 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 on the surface to be coated must not exceed rating "1" for dust size class "3", "4" or "5" (ISO 8502-3-2017). Lower dust size classes ("1" and/or "2") to be removed if visible without magnification.
- Previous coat must be dry and free from any contamination

Atmospheric exposure conditions

- Steel; blast cleaned to ISO-Sa21/2, blasting profile 30 75 μm (1.2 3.0 mils) or according to ISO-St3
- Shop primed steel; pretreated to SPSS-Pt3
- Galvanized steel must be free from grease, salts and any contamination
- Galvanized steel must be sweep blasted or otherwise roughened
- Previous coat must be dry and free from any contamination
- Existing pipelines may have to be cleaned first by scraper pigs and solvents

Substrate temperature and application conditions

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

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INSTRUCTIONS FOR USE

Mixing ratio by volume: base to hardener 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

Pot life

2 hours at 20°C (68°F)

Note:

- See ADDITIONAL DATA - Pot life

Air spray

Recommended thinner

THINNER 91-92

Volume of thinner

0 - 15%, 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 - 10%, 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.)

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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)	8.3 m ² /l (333 ft ² /US gal)			
125 µm (5.0 mils)	6.6 m²/l (266 ft²/US gal)			
160 µm (6.3 mils)	5.2 m²/l (211 ft²/US gal)			
200 μm (8.0 mils)	4.2 m²/l (166 ft²/US gal)			

Note:

 Max. DFT: DFT of 1500 µm (59.0 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.

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)
itself and various	Minimum	20 hours	12 hours	6 hours	3 hours	2 hours
two-pack epoxy coatings	Maximum exposed to direct sunshine	28 days	28 days	28 days	21 days	14 days
	Maximum NOT exposed to direct sunshine	2 months	2 months	2 months	1 month	1 month

Note:

- Surface should be dry and free from any contamination

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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)
0.0	Minimum	24 hours	15 hours	9 hours	5 hours	3 hours
component products, such as acrylics and alkyds	Maximum	14 days	14 days	7 days	7 days	7 days

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)	12 hours	20 hours	21 days
10°C (50°F)	8 hours	14 hours	14 days
15°C (59°F)	6 hours	11 hours	7 days
20°C (68°F)	4 hours	7 hours	5 days
30°C (86°F)	2 hours	5 hours	5 days

Note:

- Adequate ventilation must be maintained during application and curing

Pot life (at application viscosity)			
Mixed product temperature	Pot life		
15°C (59°F)	3 hours		
20°C (68°F)	2 hours		
30°C (86°F)	1.5 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.

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REFERENCES

Information sheet | Explanation of product data sheets

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