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
- Suitable for immersion service (ballast tanks, outside shell)
- · Good anticorrosive properties and water resistance
- · Good flexibility
- · Resistant to well designed cathodic protection
- · Good drying and curing property
- Suitable for both newbuilding and maintenance applications

COLOR AND GLOSS LEVEL

- Grey, green, yellow green, light grey
- Low sheen

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	80 ± 2%
VOC (Supplied)	Directive 2010/75/EU, SED: max. 161.0 g/kg max. 226.0 g/l (approx. 1.9 lb/US gal)
Recommended dry film thickness	125 - 200 μm (5.0 - 8.0 mils) depending on system
Theoretical spreading rate	6.4 m²/l for 125 μm (257 ft²/US gal for 5.0 mils)
Dry to touch	3 hours
Overcoating Interval	Minimum: 8 hours Maximum: 28 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

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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
- 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

- Steel; ISO 8501-3: 2006 grade P2, with all edges treated to a rounded radius of minimum 2 mm (0.0789 in) or subject to three pass grinding
- 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)
- Damages up to 2% of the total area of the tank may be treated to ISO-St3. Damages over 2% of the total area of the tank or contiguous damages over 25 m² (269 ft²) have to be blast cleaned to ISO-Sa2½.
- 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; pretreated preferably 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
- Galvanized steel must be free from grease, salts and any contamination
- · Galvanized steel must be sweep blasted or otherwise roughened
- 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

Substrate temperature and application conditions

- Substrate temperature during application and curing should be above 5°C (41°F)
- 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%

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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

4 hours at 20°C (68°F)

Note:

- See ADDITIONAL DATA - Pot life

Airless spray

Recommended thinner

THINNER 91-92

Volume of thinner

0 - 10%, depending on required thickness and application conditions

Nozzle orifice

Approx. 0.46 - 0.53 mm (0.018 - 0.021 in)

Nozzle pressure

20.0 - 25.0 MPa (approx. 200 - 250 bar; 2901 - 3626 p.s.i.)

Brush/roller

· Brush: for stripe coating and spot repair only

Cleaning solvent

• THINNER 90-53

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ADDITIONAL DATA

Spreading rate and film thickness		
DFT	Theoretical spreading rate	
125 µm (5.0 mils)	6.4 m²/l (257 ft²/US gal)	
160 µm (6.3 mils)	5.0 m²/l (204 ft²/US gal)	
200 μm (8.0 mils)	4.0 m²/l (160 ft²/US gal)	

Note:

- Maximum DFT in critical areas, applied in two equal coats: 1500 μm (60.0 mils)

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 two-pack epoxy coatings	Minimum Maximum	48 hours 28 days	24 hours 28 days	8 hours 28 days	4 hours 28 days	2 hours 21 days
SIGMADUR and one- component products, such as acrylics and alkyds	Minimum Maximum	48 hours 14 days	24 hours 14 days	12 hours 14 days	6 hours 14 days	3 hours 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)	24 hours	48 hours	20 days
10°C (50°F)	12 hours	24 hours	14 days
20°C (68°F)	3 hours	8 hours	7 days
30°C (86°F)	2 hours	6 hours	4 days
40°C (104°F)	1 hour	4 hours	3 days

Note:

- Adequate ventilation must be maintained during application and curing

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Pot life (at application viscosity)		
Mixed product temperature	Pot life	
15°C (59°F)	6 hours	
20°C (68°F)	4 hours	
30°C (86°F)	2 hours	
40°C (104°F)	1 hours	

SAFETY PRECAUTIONS

- See Safety Data Sheet and product label for complete safety and precaution requirements
- 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 & 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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AVAILABILITY OF PACKAGING

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

Article code	Color	Reference
250041	Green	4100002200 (00250040 base, 00250044 hardener)
250043	Grey	5100002200 (00250042 base, 00250044 hardener)
330731	Yellow/green	4200002200 (00330709 base, 00250044 hardener)
383417	Grey	5000002200 (00383416 base, 00250044 hardener)
388013	Light grey	5177052200 (00388012 base, 00250044 hardener)

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