DESCRIPTION

High-performance modified phenolic epoxy (90 Series)

PRINCIPAL CHARACTERISTICS

- · High solids tank lining
- · Excellent chemical resistance
- · Suitable for cycling and long term continuous immersion service.
- Withstands continuous immersion in water up to 60°C (140°F)
- Recommended under thermal insulation on carbon steel or stainless steel up to 200°C (390°F)

Note: Contact your PPG representative for specific chemical resistance information

COLOR AND GLOSS LEVEL

- · White, pearl gray
- Flat

BASIC DATA AT 20°C (68°F)

Data for mixed product	
Number of components	Two
Mass density	1.4 kg/l (11.5 lb/US gal)
Volume solids	58 ± 2%
VOC (Supplied)	Directive 1999/13/EC, SED: max. 286.0 g/kg UK PG 6/23(92) Appendix 3: max. 348.0 g/l (approx. 2.9 lb/US gal)
Recommended dry film thickness	150 μm (6.0 mils) per coat
Theoretical spreading rate	$3.9 \text{ m}^2\text{/I}$ for 150 μm (155 ft²/US gal for 6.0 mils)
Dry to handle	16 hours
Overcoating Interval	Minimum: 24 hours Maximum: 12 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 Overcoating intervals
- See ADDITIONAL DATA Curing time

Ref. P244 Page 1/5



RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

Steel

- Abrasive blast cleaning is recommended with a surface profile of 40 70 μm (1.6 2.8 mils).
- Immersion: blast to Sa 3, ISO 8501-1 or SSPC SP-5.
- · Remove all rust, dirt, moisture, grease or other contaminants from the surface

Note: Apply primer as soon as possible after surface preparation to prevent any contamination.

Concrete

- · Dried for at least 28 days in good ventilation conditions
- Moisture content should not exceed 4.5%
- · Concrete must be sound, dry, free from laitance and any contamination
- · Rough surface; eventually abraded by power tool or diamond abrading tool

Substrate temperature and application conditions

- Surface temperature during application should be between 10°C (50°F) and 50°C (122°F)
- Surface temperature during application should be at least 3°C (5°F) above dew point
- Ambient temperature during application and curing should be between 10°C (50°F) and 43°C (109°F)

SYSTEM SPECIFICATION

· For use under thermal insulation do not exceed 200 microns (8 mils) dry film thickness

INSTRUCTIONS FOR USE

Mixing ratio by volume: base to hardener 66.7:33.3 (2:1)

- Pre-mix base component with a pneumatic air mixer at moderate speeds to homogenize the container
- · Add hardener to base and continue stirring until homogeneous
- The thinner should be added after mixing the two components
- Adding too much thinner results in reduced sag resistance and slower cure

Induction time

None

Pot life

4 hours at 20°C (68°F)

Note: See ADDITIONAL DATA - Pot life

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Ref. P244 Page 2/5

Repair

- · Spot blast or power tool clean bare substrate to the requirements shown under surface preparation.
- · Feather edges of intact coating.
- · Remove dust, dirt and contamination before recoating.

Material temperature

Material temperature during application should be between 10°C (50°F) and 40°C (104°F)

Air spray

Recommended thinner

THINNER 21-06

Volume of thinner

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

Nozzle orifice

1.8 - 2.0 mm (approx. 0.070 - 0.079 in)

Nozzle pressure

0.3 - 0.4 MPa (approx. 3 - 4 bar; 44 - 58 p.s.i.)

Note: A moisture and oil trap in the main air supply is essential

Airless spray

• 28:1 pump or larger

Recommended thinner

THINNER 21-06

Volume of thinner

0 - 5%

Nozzle orifice

Approx. 0.43 - 0.53 mm (0.017 - 0.021 in)

Nozzle pressure

15.0 - 18.0 MPa (approx. 150 - 180 bar; 2176 - 2611 p.s.i.)

Brush/roller

· Only for touch-up and spot repair

Recommended thinner

THINNER 21-06

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Ref. P244 Page 3/5

Cleaning solvent

THINNER 90-58

Note: All application equipment must be cleaned immediately after use

ADDITIONAL DATA

Overcoating interval for DFT up to 150 μm (6.0 mils)						
Overcoating with	Interval	10°C (50°F)	20°C (68°F)	30°C (86°F)		
itself	Minimum	48 hours	24 hours	16 hours		
	Maximum	15 days	12 days	10 days		

Note: Surfaces must be clean, dry and free of contamination, immediately prior to recoating.

Curing time for DFT up to 150 ⊠m (6.0 mils)					
Substrate temperature	Dry to handle	Service- water immersion			
10°C (50°F)	32 hours	14 days			
20°C (68°F)	16 hours	7 days			
30°C (86°F)	10 hours	4 days			

Notes:

- Adequate ventilation must be maintained during application and curing
- Drying times are dependent on air and steel temperature, applied film thickness, ventilation and other environmental conditions

Pot life (at application viscosi	fe (at application viscosity)		
Mixed product temperature	Pot life		
20°C (68°F)	4 hours		
30°C (86°F)	2 hours		

Note: Since the pot life is limited and shortened by high temperatures, do not mix more material that will be used within the pot life period

SAFETY PRECAUTIONS

- Since improper use and handling can be hazardous to health and cause of fire or explosion, safety precautions included with Product Data/Application Instruction and Material Safety Data Sheet must be observed during all storage, handling, use and drying periods
- · Adequate ventilation to remove solvent must be maintained during application and curing

Ref. P244 Page 4/5



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

•	CONVERSION TABLES	INFORMATION SHEET	1410
•	EXPLANATION TO PRODUCT DATA SHEETS	INFORMATION SHEET	1411
•	SAFETY IN CONFINED SPACES AND HEALTH SAFETY, EXPLOSION HAZARD -	INFORMATION SHEET	1431
	TOXIC HAZARD		
•	SAFE WORKING IN CONFINED SPACES	INFORMATION SHEET	1433

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Ref. P244 Page 5/5