

AMERCOAT® 182 ZP HB

DESCRIPTION

Two-component, high-build polyamide cured zinc phosphate epoxy primer/coating

PRINCIPAL CHARACTERISTICS

- Good anticorrosive properties under atmospheric conditions
- Forms durable coating systems with a wide range of topcoats
- Excellent shop primer in corrosive environments
- Tiecoat over DIMETCOTE with suitable Amercoat topcoats

COLOR AND GLOSS LEVEL

- Beige, gray, MIO beige, oxide red
- Flat

BASIC DATA AT 20°C (68°F)

Data for mixed product	
Number of components	Two
Mass density	1.3 kg/l (11.1 lb/US gal)
Volume solids	55 ± 2%
VOC (Supplied)	Directive 1999/13/EC, SED: max. 354.0 g/kg UK PG 6/23(92) Appendix 3: max. 471.0 g/l (approx. 3.9 lb/US gal)
Recommended dry film thickness	100 µm (4.0 mils) per coat
Theoretical spreading rate	5.5 m ² /l for 100 µm (221 ft ² /US gal for 4.0 mils)
Dry to touch	3 hours
Overcoating Interval	Minimum: 4 hours Maximum: Unlimited
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 – Overcoating intervals
- See ADDITIONAL DATA – Curing time

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

Substrate conditions

- Steel; blast cleaned to ISO Sa 2½ or SSPC-SP-10, blasting profile 25 – 50 µm (635 – 1270 mils)
- Previous suitable coat must be dry and free from any contamination
- Refer to application instructions for the particular DIMETCOTE for any other special topcoating requirements.

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



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Substrate temperature and application conditions

- Surface temperature during application should be between 5°C (41°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 5°C (41°F) and 50°C (122°F)
 - Relative humidity during application should not exceed 85%
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INSTRUCTIONS FOR USE

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

- 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
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Induction time

None

Pot life

8 hours at 20°C (68°F)

Note: See ADDITIONAL DATA – Pot life

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.
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Air spray

Recommended thinner

THINNER 91-83

Volume of thinner

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

Nozzle orifice

1.5 – 3.0 mm (approx. 0.060 – 0.110 in)

Nozzle pressure

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

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Airless spray

- 28:1 pump or larger

Recommended thinner

THINNER 91-83

Volume of thinner

0 - 5%, depending on required thickness and application conditions

Nozzle orifice

Approx. 0.38 – 0.53 mm (0.015 – 0.021 in)

Nozzle pressure

15.0 - 20.0 MPa (approx. 150 - 200 bar; 2176 - 2901 p.s.i.)

Brush/roller

- Only for touch-up and spot repair

Recommended thinner

THINNER 91-83

Cleaning solvent

THINNER 90-58

Note: All application equipment must be cleaned immediately after use

ADDITIONAL DATA

Overcoating interval for DFT up to 100 µm (4.0 mils)				
Overcoating with...	Interval	10°C (50°F)	20°C (68°F)	30°C (86°F)
itself	Minimum	8 hours	4 hours	2 hours
	Maximum	Unlimited	Unlimited	Unlimited

Notes:

- Surface should be dry and free from any contamination
- To topcoat AMERCOAT 182 ZP HB must be in good condition, free of corrosion products or contaminants
- This product has an unlimited maximum overcoating interval provided the surface is free from chalking and other contamination, in which case it should be cleaned and roughened up to ensure good adhesion of subsequent coat

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Curing time for DFT up to 100 µm (4.0 mils)

Substrate temperature	Dry to touch	Dry to handle
10°C (50°F)	6 hours	8 hours
20°C (68°F)	3 hours	4 hours
30°C (86°F)	2 hours	2 hours

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 viscosity)

Mixed product temperature	Pot life
20°C (68°F)	8 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

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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