DESCRIPTION

Two-component, high solids polyamide cured recoatable zinc phosphate epoxy primer

PRINCIPAL CHARACTERISTICS

- General-purpose epoxy primer or buildcoat in protective coating systems, for steel and concrete structures in atmospheric exposure
- Can be recoated with various two-component and conventional coatings, even after long weathering periods
- Free from lead- and chromate-containing pigments
- · Excellent rust preventing properties in industrial or coastal atmospheres
- Tough with long term flexibility
- Cures at temperatures down to -5°C (23°F)
- Excellent adhesion to steel
- Easy application, both by airless spray and brush
- VOC compliant
- Registered as Highway Agency item 111
- Approved Network Rail RT 98

COLOR AND GLOSS LEVEL

- Cream
- Eggshell

BASIC DATA AT 20°C (68°F)

Data for mixed product	
Number of components	Тwo
Mass density	1.4 kg/l (11.7 lb/US gal)
Volume solids	68 ± 2%
VOC (Supplied)	UK PG 6/23(92) Appendix 3: max. 214.0 g/l (approx. 1.8 lb/US gal)
Recommended dry film thickness	75 - 150 μm (3.0 - 6.0 mils) depending on system
Theoretical spreading rate	6.8 m²/l for 100 μm (273 ft²/US gal for 4.0 mils)
Dry to touch	4 hours
Overcoating Interval	Minimum: 8 hours Maximum: 6 months
Full cure after	4 days
Shelf life	Base: at least 12 months when stored cool and dry Hardener: at least 12 months when stored cool and dry

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

Substrate conditions

Steel; blast cleaned to ISO-Sa2¹/₂



Substrate temperature and application conditions

- Substrate temperature during application and curing down to -5°C (23°F) is acceptable; provided the substrate is free from ice and dry
- 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%

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

Pot life

4 hours at 20°C (68°F)

Note: See ADDITIONAL DATA - Pot life

<u>Air spray</u>

Recommended thinner THINNER 91-92

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.)

Airless spray

Recommended thinner THINNER 91-92

Volume of thinner

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

Nozzle orifice Approx. 0.48 mm (0.019 in)

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



Brush/roller

Recommended thinner THINNER 91-92

Volume of thinner 0 - 5%

Cleaning solvent THINNER 90-53

ADDITIONAL DATA

Spreading rate and film thickness				
DFT	Theoretical spreading rate			
75 µm (3.0 mils)	9.1 m²/l (364 ft²/US gal)			
100 µm (4.0 mils)	6.8 m²/l (273 ft²/US gal)			
150 µm (6.0 mils)	4.5 m²/l (182 ft²/US gal)			

Overcoating interval for DFT up to 100 μm (4.0 mils)								
Overcoating with	Interval	-5°C (23°F)	5°C (41°F)	10°C (50°F)	20°C (68°F)	30°C (86°F)	40°C (104°F)	
itself	Minimum	48 hours	20 hours	16 hours	8 hours	6 hours	4 hours	
	Maximum	6 months	6 months	6 months	6 months	6 months	6 months	

Note: For polyurethane paints the minimum overcoating time should be raised with 100%

Curing time for DFT up to 100 µm (4.0 mils)					
Substrate temperature	Dry to handle	Full cure			
-5°C (23°F)	24 hours - 48 hours	14 days			
0°C (32°F)	24 hours - 30 hours	10 days			
5°C (41°F)	18 hours - 24 hours	8 days			
10°C (50°F)	18 hours	6 days			
15°C (59°F)	12 hours	5 days			
20°C (68°F)	8 hours	4 days			
30°C (86°F)	6 hours	3 days			
40°C (104°F)	4 hours	48 hours			

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



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.

REFERENCES

 EXPLANATION TO PRODUCT DATA SHEETS SAFETY INDICATIONS SAFETY IN CONFINED SPACES AND HEALTH SAFETY, EXPLOSION HAZARD – TOXIC HAZARD 	INFORMATION SHEET INFORMATION SHEET INFORMATION SHEET	1411 1430 1431
 SAFE WORKING IN CONFINED SPACES DIRECTIVES FOR VENTILATION PRACTICE CLEANING OF STEEL AND REMOVAL OF RUST 	INFORMATION SHEET INFORMATION SHEET INFORMATION SHEET	1433 1434 1490

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

IN NO EVENT WILL PPG BE LIABLE UNDER ANY THEORY OF RECOVERY (WHETHER BASED ON NEGLIGENCE OF ANY KIND, STRICT LIABILITY OR TORT) FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES IN ANY WAY RELATED TO, ARISING FROM, OR RESULTING FROM ANY USE MADE OF THE PRODUCT. The information in this sheet is intended for guidance only and is based upon laboratory tests that PPG believes to be reliable. PPG may modify the information contained herein at any time as a result of practical experience and continuous product development. All recommendations or suggestions relating to the use of the PPG product, whether in technical documentation, or in response to a specific inquiry, or otherwise, are based on data, which to the best of PPG's knowledge, is reliable. The product and related information is designed for users having the requisite knowledge and industrial skills in the industry and it is the end-user's responsibility to determine the suitability of the product for its own particular use and it shall be deemed that Buyer has done so, as its sole discretion and risk. PPG has no control over either the quality or condition of the substrate, or the many factors affecting the use and application of the product. Therefore, PPG does not accept any liability arising from any loss, injury or damage resulting from such use or the contents of this information (unless there are written agreements stating otherwise). Variations in the application environment, changes in procedures of use, or extrapolation of data may cause unsatisfactory results. This sheet supersedes all previous versions and it is the Buyer's responsibility to ensure that this information is current prior to using the product. Current sheets for all PPG Protective & Marine Coatings Products are maintained at www.ppgpmc.com. The English text of this sheet shall prevail over any translation thereof.

The PPG logo, and all other PPG marks are property of the PPG group of companies. All other third-party marks are property of their respective owners.

