## **DESCRIPTION**

Two-component, high solids polyamide cured zinc rich epoxy primer

## PRINCIPAL CHARACTERISTICS

- Designed as a system primer for various paint systems
- · Excellent anticorrosive properties
- Quick-drying, can be overcoated after a short interval
- Can serve as a holding primer for various maintenance systems for a total repair
- Complies with HG/T3668-2009
- Complies with SSPC-Paint 20 level 2 and ISO 12944.5

## **COLOR AND GLOSS LEVEL**

- · Gray, reddish gray
- Flat

## BASIC DATA AT 20°C (68°F)

Data for mixed product	
Number of components	Two
Mass density	2.4 kg/l (19.7 lb/US gal)
Volume solids	66 ± 2%
VOC (Supplied)	Directive 2010/75/EU, SED: max. 123.0 g/kg UK PG 6/23(92) Appendix 3: max. 290.0 g/l (approx. 2.4 lb/US gal)
Recommended dry film thickness	50 - 150 μm (2.0 - 6.0 mils)
Theoretical spreading rate	$8.8 \text{ m}^2\text{/I for } 75 \mu\text{m}$ (353 ft²/US gal for 3.0 mils)
Dry to touch	20 minutes
Overcoating Interval	Minimum: 2 hours Maximum: 3 months
Full cure after	7 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. P764 Page 1/5



#### RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

## **Atmospheric exposure conditions**

- Steel; shot blast cleaned to ISO-Sa2½, blasting profile 40 70 μm (1.6 2.8 mils)
- Steel with approved zinc silicate shop primer; pretreated according to SPSS or power tool cleaned to SSPC SP3 (SPSS- Pt3)

## Substrate temperature

- Substrate temperature during application should be at least 3°C (5°F) above dew point
- Substrate temperature during application and curing down to -5°C (23°F) is acceptable; provided the substrate is free from ice and dry

#### **INSTRUCTIONS FOR USE**

## Mixing ratio by volume: base to hardener 5.67:1

- The temperature of the paint should preferably be above 15°C (59°F), otherwise extra thinner may be required to obtain application viscosity
- · Too much thinner results in lower sag resistance and slower cure
- Thinner should be added after mixing the components

## Pot life

4 hours at 20°C (68°F)

#### Air sprav

## Recommended thinner

**THINNER 91-92** 

## Volume of thinner

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

## **Nozzle orifice**

1.8 - 2.2 mm (approx. 0.070 - 0.087 in)

#### Nozzle pressure

0.3 - 0.6 MPa (approx. 3 - 6 bar; 44 - 87 p.s.i.)

Ref. P764 Page 2/5



## Airless spray

## **Recommended thinner**

THINNER 91-92

## **Volume of thinner**

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

## **Nozzle orifice**

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

## **Nozzle pressure**

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

## **Brush/roller**

## **Recommended thinner**

**THINNER 91-92** 

#### Volume of thinner

0 - 10%

## **Cleaning solvent**

• THINNER 90-53

## **ADDITIONAL DATA**

Spreading rate and film thickness				
DFT	Theoretical spreading rate			
50 μm (2.0 mils)	13.2 m²/l (529 ft²/US gal)			
75 µm (3.0 mils)	8.8 m²/l (353 ft²/US gal)			
100 μm (4.0 mils)	6.6 m²/l (265 ft²/US gal)			
150 μm (6.0 mils)	4.4 m²/l (176 ft²/US gal)			

Ref. P764 Page 3/5



Overcoating interval for DFT up to 150 μm (6.0 mils)								
Overcoating with	Interval	-5°C (23°F)	0°C (32°F)	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	Minimum	72 hours	36 hours	6 hours	4 hours	2 hours	1 hour	30 minutes
coatings	Maximum	3 months	3 months	3 months	3 months	3 months	3 months	3 months

#### Notes:

- Zinc rich primers can form zinc salts on the surface; preferably they should not be weathered for long periods before overcoating
- In clean exterior conditions, a maximum interval of 3 months can be tolerated, but in industrial or marine conditions this interval should be reduced to the practical minimum
- Before overcoating any visible surface contamination must be removed by sandwashing, sweep blasting or mechanical cleaning

Curing time for DFT up to 50 μm (2.0 mils)							
Substrate temperature	Dry to touch	Dry to handle	Full cure				
-5°C (23°F)	12 hours	3 days	28 days				
0°C (32°F)	8 hours	1.5 days	25 days				
5°C (41°F)	1.5 hours	6 hours	20 days				
10°C (50°F)	1 hour	4 hours	15 days				
15°C (59°F)	40 minutes	3 hours	10 days				
20°C (68°F)	20 minutes	2 hours	7 days				
30°C (86°F)	10 minutes	1.5 hours	5 days				

#### Note:

- Adequate ventilation must be maintained during application and curing

## **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.

Ref. P764 Page 4/5



#### **REFERENCES**

Information sheet | Explanation of product data sheets

#### **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.



Ref. P764 Page 5/5