

# AQUAPON® | 97-670 SERIES

## DESCRIPTION

Three-component, zinc rich epoxy

## PRINCIPAL CHARACTERISTICS

- >90% zinc in dry film
- Provides outstanding corrosion resistance
- Fast dry times for rapid topcoating

## COLOR AND GLOSS LEVEL

- Reddish gray
- Flat

## BASIC DATA AT 20°C (68°F)

Data for mixed product	
Number of components	Three
Volume solids	65 ± 3%
VOC (Supplied)	max. 3.4 lb/US gal (approx. 403 g/l)
Recommended dry film thickness	3.0 - 5.0 mils (75 - 125 µm) depending on system
Theoretical spreading rate	348 ft <sup>2</sup> /US gal for 3.0 mils (8.5 m <sup>2</sup> /l for 75 µm)
Shelf life	Base: at least 36 months when stored cool and dry Hardener: at least 36 months when stored cool and dry

### Notes:

- See ADDITIONAL DATA - Overcoating intervals
- See ADDITIONAL DATA - Curing time

## RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

- Coating performance is proportional to the degree of surface preparation. All previous coats must dry and free of contaminants

### Steel

- Abrasive blast with an angular abrasive to an SSPC SP-6 cleanliness or higher for optimum performance. Achieve a surface profile of 1.0 – 3.0 mils (25 – 75 µm)
- Higher surface profiles up to 5 mils (125 µm) are acceptable, but the product must be applied in a thickness great enough to achieve a minimum of 2.5 mils (65 µm) dry film thickness
- Apply this product as soon as possible to prevent blasted surface from rusting.
- Keep moisture, oil, grease, or other organic matter off surface before coating
- For touch up and repair, power tool cleaning in accordance with SSPC SP-11 is acceptable



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## **Substrate temperature and application conditions**

- Surface temperature during application should be between 40°F (4°C) and 120°F (49°C)
- Surface temperature during application should be at least 5°F (3°C) above dew point
- Ambient temperature during application and curing should be between 40°F (4°C) and 100°F (38°C)
- Relative humidity during application and curing should not exceed 85%

Note: Product can be applied without accelerator at surface and air temperatures down to 40°F. Material temperature must be maintained at 60 to 90°F at the time of application. Due to the long curing time at this temperatures when accelerator is not used, it is recommended that temperatures above 50°F are expected within 12 hours of application. Coated surfaces should be protected from moisture until dry through time is reached.

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## **Warning**

Removal of old paint by sanding, scraping or other means may generate dust or fumes which contain lead. EXPOSURE TO LEAD DUST OR FUMES MAY CAUSE ADVERSE HEALTH EFFECTS, ESPECIALLY IN CHILDREN OR PREGNANT WOMEN. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted and approved (e.g., NIOSH approved) respirator and proper containment and cleanup. For additional information, contact the USEPA/Lead Information Hotline at 1-800-424-LEAD or the regional Health Canada office

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## **SYSTEM SPECIFICATION**

- Primers: Direct to metal, can be used to touch up inorganic zincs such as METALHIDE 2000
- Topcoats: PITTGUARD Epoxies, DURETHANE DTM, PITTHANE Ultra, AMERSHIELD, PSX 700, AMERCOAT450 H, AMERLOCK 2/400, AMERCOAT 385, AMERCOAT 370, AMERCOAT Epoxies

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## **INSTRUCTIONS FOR USE**

### **Mix as packaged**

- Pre-mix base component with a pneumatic air mixer at moderate speeds to homogenize the container. Add hardener to base and agitate with a power mixer for 1-2 minutes until completely dispersed. Add powder component slowly under agitation until fully mixed. Strain the mixture from one container to another through a 30 mesh filter/strainer to remove any undispersed lumps

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### **Pot life**

24 hours at 70°F (21°C)

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### **Application**

- Area should be sheltered from airborne particulates and pollutants
- Ensure good ventilation during application and curing
- Provide shelter to prevent wind from affecting spray patterns

### **Material temperature**

Material temperature during application should be between 40°F (4°C) and 90°F (32°C)

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**Air spray**

- Separate air and fluid pressure regulators and a moisture and oil trap in the main air supply line are recommended.
- Use standard conventional equipment

**Recommended thinner**

THINNER 91-25 (97-725)

**Volume of thinner**

0 - 5%

**Nozzle orifice**

Approx. 0.070 in (1.8 mm)

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**Airless spray**

- 45:1 pump or larger

**Recommended thinner**

THINNER 91-25 (97-725)

**Volume of thinner**

0 - 5%

**Nozzle orifice**

0.017 in (approx. 0.43 mm)

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**Brush/roller**

- Use a high-quality natural-bristle brush. Brush application is only recommended for small touch-up and/or repair areas. Roller application is not recommended
- Ensure brush is well loaded to avoid air entrainment
- Multiple coats may be required to achieve proper film build and hiding with brush application

**Recommended thinner**

THINNER 91-25 (97-725)

**Volume of thinner**

0 - 5%

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**Cleaning solvent**

THINNER 90-58 (AMERCOAT 12)



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## ADDITIONAL DATA

Overcoating interval for DFT up to 3.0 mils (75 µm)					
Overcoating with...	Interval	40°F (4°C)	50°F (10°C)	70°F (21°C)	90°F (32°C)
Itself and recommended topcoats	Minimum	24 hours	12 hours	4 hours	2 hours
	Maximum	Unlimited	Unlimited	Unlimited	Unlimited

Note: Maximum interval is only unlimited when the surface is free from any contamination

Curing time for DFT up to 3.0 mils (75 µm)		
Substrate temperature	Dry to touch	Dry to handle
40°F (4°C)	6 hours	24 hours
50°F (10°C)	3 hours	12 hours
70°F (21°C)	1 hour	4 hours
90°F (32°C)	130 minutes	2 hours

## Product Qualifications

- SSPC Paint 20, Type II, Level 1
- RCSC Class B slip coefficient for high strength bolted connections
- Zinc dust meets ASTM D520 type 2 standards
- Meets MPI Category #20, epoxy zinc rich

## DISCLAIMER

- For industrial or professional use only

## 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

## Danger

Rags, steel wool or waste soaked with this product may spontaneously catch fire if improperly discarded. Immediately after use, place rags, steel wool or waste in a sealed water-filled metal container. Refer to [www.pittsburghpaints.com](http://www.pittsburghpaints.com), Spontaneous Combustion Advisory for additional information

## 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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## REFERENCES

• CONVERSION TABLES	INFORMATION SHEET	1410
• EXPLANATION TO PRODUCT DATA SHEETS	INFORMATION SHEET	1411
• SAFETY INDICATIONS	INFORMATION SHEET	1430
• SAFETY IN CONFINED SPACES AND HEALTH SAFETY, EXPLOSION HAZARD – TOXIC HAZARD	INFORMATION SHEET	1431

## 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.

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## AVAILABILITY

### Packaging

1-gallon and 5-gallon kits (Do not mix components of different kit sizes)

Product codes	Description
97-670A	Base
97-670B	Hardener
97-670Z	Zinc powder

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