

# AQUAPON® WB | 98-1 SERIES

## DESCRIPTION

Two-component, water-borne epoxy

## PRINCIPAL CHARACTERISTICS

- Suitable for floors and vertical surfaces
- Impact, mar, and abrasion resistant
- Low odor, soap and water clean up
- Stain resistant; resists yellowing
- Low VOC

## COLOR AND GLOSS LEVEL

- Porcelain white, black, light gray, tile red, safety colors, custom colors
- Gloss and semi-gloss

Note: Epoxy coatings will characteristically chalk and fade upon exposure to sunlight. Light colors are prone to ambering to some extent in interior or exterior exposures

## BASIC DATA AT 68°F (20°C)

Data for mixed product	
Number of components	Two
Volume solids	Gloss: 38 ± 3% Semi-gloss: 43 ± 3%
VOC (Supplied)	Gloss: max. 2.3 lb/US gal (approx. 271 g/l) (standard hardener) Gloss: max. 2.1 lb/US gal (approx. 249 g/l) (low VOC gloss hardener) Semi-gloss: max. 2.0 lb/US gal (approx. 242 g/l) (semo-gloss hardener)
Recommended dry film thickness	2.0 - 3.0 mils (50 - 75 µm) depending on system
Theoretical spreading rate	Gloss: 305 ft <sup>2</sup> /US gal for 2.0 mils (7.6 m <sup>2</sup> /l for 50 µm) Semi-gloss: 345 ft <sup>2</sup> /US gal for 2.0 mils (8.6 m <sup>2</sup> /l for 50 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, in general, proportional to the degree of surface preparation



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## **Steel**

- Remove weld spatter, protrusions, and laminations in steel
  - Remove all surface contaminants, oil and grease in accordance with SSPC SP-1
  - 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)
  - Prime with an epoxy primer
  - For maintenance and repair in atmospheric service, the product can be applied over surfaces prepared in accordance with SSPC SP-2 or SSPC SP-3 (hand and power tool cleaning).
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## **Concrete**

- Allow concrete, mortar, plaster, etc. to cure for 30 days or more under normal drying conditions
  - Remove all surface contaminants such as oil, grease, and embedded chemicals
  - Abrade surface per ASTM D-4259 to remove all efflorescence and laitance, to expose subsurface voids, and to provide a surface roughness equivalent of 60 grit sandpaper or coarser
  - Surface should be free from moisture in accordance with ASTM D4263. Refer to Information Sheet # 1496ACUS for further details regarding moisture measurements
  - Slabs on grade should have a maximum moisture content of 3 lbs / 1,000 ft<sup>2</sup>/24 hours when measured by calcium chloride test
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## **Non-ferrous metals**

- Lightly abrasive blast or mechanically abrade in accordance with SSPC SP-16 to achieve a uniform and dense 1.5 – 3.0 mil anchor profile. Prime with an epoxy primer
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## **Galvanizing**

- Remove oil or soap film with detergent or emulsion cleaner, then use a phosphatizing conversion coating
  - Alternately, power tool clean to uniformly abrade the surface or lightly abrasive blast with a fine abrasive to produce a uniform and dense anchor profile of 1.0 – 3.0 mils (25 – 75 µm)
  - Prime with an epoxy primer
  - Galvanizing that has had at least 12 months of exterior weathering may be coated after power washing to remove all contaminants and white rust
  - Galvanized surfaces that have been passivated with a chromate treatment must be abrasive blasted. Coatings may not adhere to chromate sealed galvanizing if the chromates are not completely removed.
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## **Stainless steel**

- Abrasive blast cleaning to SSPC SP-10 standards (SP-16 for stainless steel) using a fine abrasive to obtain an angular 1.0-1.5 mil anchor profile. Blast stainless steel with a non-metallic abrasive
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## **Aged coatings and repairs**

- Ensure the coating system is sound and well adhered
- Do not apply over acrylic coatings or coatings that exhibit poor solvent resistance
- A test patch is recommended to determine compatibility and adhesion
- Sweep blast or otherwise thoroughly abrade the existing coating in accordance with SSPC SP-7
- Alternately, PREP 88 may be used to prepare some existing coatings. Please refer to PREP 88 data sheet for details
- Feather the edges of tightly adhered, in-tact coatings at the perimeter of repair areas
- Power tool clean the existing steel in accordance with SSPC SP-3 (atmospheric service)

## **Wood, plywood**

- Sand lightly in order to remove surface roughness and wood fibers. Then remove all dirt, dust, grime and any other forms of contamination. Remove grease and oils by solvent cleaning per SSPC SP-1

## **Substrate temperature and application conditions**

- Surface temperature during application should be between 50°F (10°C) and 130°F (54°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 50°F (10°C) and 100°F (38°C)
- Relative humidity during application should be between 0% and 85%

## **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

## **SYSTEM SPECIFICATION**

- Primers for ferrous metal: 98-46, 97-145, 97-946, AMERLOCK 2/400
- Primers for non-ferrous metals: 98-46, 97-145, 97-946, AMERLOCK 2/400
- Primers for concrete: 97-145, 97-946, AMERLOCK 2/400, AMERLOCK SEALER
- Primers for CMU: 95-217, AMERLOCK 400 BF, 4-100
- Primers for drywall: 6-2 or self priming

## **INSTRUCTIONS FOR USE**

### **Mixing ratio by volume: base to hardener 50:50 (1:1)**

- Pre-mix pigmented components with a pneumatic air mixer at moderate speeds to homogenize the container. Under mechanical agitation, add hardener to base and agitate with a power mixer for 1–2 minutes until completely dispersed. The mixed material will increase in viscosity. No digestion time is required.

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**Induction time**

None

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**Pot life**

6 hours at 70°F (21°C)

Note: See ADDITIONAL DATA – Pot life

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**Application**

- Area should be sheltered from airborne particulates and pollutants
- Avoid combustion gases or other sources of carbon dioxide that may promote amine blush and ambering of light colors
- 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 50°F (10°C) and 90°F (32°C)

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**Air spray**

- Use standard conventional equipment

**Recommended thinner**

Tap water

**Volume of thinner**

0 - 6%

**Nozzle orifice**

Approx. 0.070 in (1.8 mm)

**Nozzle pressure**

0.4 - 0.5 MPa (approx. 4 - 5 bar; 55 - 70 p.s.i.)

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**Airless spray**

- 30:1 pump or larger

**Recommended thinner**

Tap water

**Volume of thinner**

0 - 6%

**Nozzle orifice**

0.015 – 0.017 in (approx. 0.38 – 0.43 mm)

**Nozzle pressure**

10.3 MPa (approx. 104 bar; 1500 p.s.i.)

**Brush/roller**

- Use a high quality polyester/nylon brush and/or a high quality 3/8" nap roller. In hot or dry conditions, layoff lightly rolling with 3/8" nap roller cover. Multiple coats may be required to achieve specified film thickness

**Recommended thinner**

Tap water

**Volume of thinner**

0 – 5%

**Cleaning solvent**

Soap and water

**ADDITIONAL DATA**

Overcoating interval for DFT up to 2.0 mils (51 µm )				
Overcoating with...	Interval	50°F (10°C)	70°F (21°C)	90°F (32°C)
itself	Minimum	32 hours	16 hours	9 hours
	Maximum	2 months	30 days	14 days

Notes:

- Dry times are dependent on air and surface temperatures as well as film thickness, ventilation, and relative humidity. Maximum recoating time is highly dependent upon actual surface temperatures – not simply air temperatures. Surface temperatures should be monitored, especially with sun-exposed or otherwise heated surfaces. Higher surface temperatures shorten the maximum recoat window
- Surface must be clean and dry. Any contamination must be identified and removed. A detergent wash with PREP 88 or equivalent is required prior to application of topcoats after 30 days of exposure. However, particular attention must be paid to surfaces exposed to sunlight where chalking may be present. In those situations, a further degree of cleaning may be required. PPG Technical Service can advise on suitable cleaning methods. If maximum recoat/topcoat time is exceeded, then roughen surface.

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Curing time for DFT up to 2.0 mils (51 µm )		
Substrate temperature	Dry to touch	Dry to handle
50°F (10°C)	4 hours	24 hours
70°F (21°C)	1 hour	7 hours
90°F (32°C)	40 minutes	4 hours

Pot life (at application viscosity)	
Mixed product temperature	Pot life
50°F (10°C)	10 hours
70°F (21°C)	6 hours
90°F (32°C)	3 hours

## 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

## 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

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|--|-------------------|------|
| • 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

2-gallon and 10-gallon kits

Product codes	Description
98-1	Porcelain White
98-10	Safety Red
98-11	Safety blue
98-13	Safety Yellow
98-2	Black
98-3	Light Gray
98-4	ASA #49 Gray
98-9	Tile red
98-51	Pastel Base
98-56	Midtone base
98-98	Gloss Hardener
98-100	Semi-gloss Hardener
98-101	Gloss (low VOC) Hardener

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