

AQUAPON® WB EP

DESCRIPTION

Two component, ultra low VOC, water-based epoxy finish

PRINCIPAL CHARACTERISTICS

- Suitable for floors and vertical surfaces
- Impact, mar, and abrasion resistant
- Breathable - resistant to disbondment from moisture vapor transmission
- Low odor, soap and water clean up
- Stain resistant
- Low VOC
- Reviewed and considered suitable for incidental food contact applications

COLOR AND GLOSS LEVEL

- Ready made color(s): Porcelain white, Black, Light Gray, ASA #49 Gray
- Tint base(s): Midtone, Neutral, and Pastel
- Clear
- Gloss and semi-gloss

Notes:

- Clear topcoat comes as a dedicated component A (base) and component B (hardener). Do not mix with ready-made and/or tint base topcoat components
- Clear topcoat mixes and applies as a white liquid but dries clear.
- 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	42 ± 3%
VOC (Supplied)	EPA Method 24: 26.0 g/ltr (0.2 lb/USgal)
Recommended dry film thickness	2.0 - 4.0 mils (50 - 100 µm) depending on system
Theoretical spreading rate	336 ft ² /US gal for 2.0 mils (8.3 m ² /l for 50 µm)
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



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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)
 - For increased corrosion resistance prime with AQUAPON® WB EP 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
 - Use Speedhide Block Filler or 36250 Dulux Xpert Int/Ext Acrylic Block Filler or Amerlock 400BF for application over concrete block
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Non-ferrous metals

- Abrasive blast in accordance with SSPC SP-16 guidelines
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Galvanizing

- Galvanizing that has had at least 12 months of exterior weathering may be coated after preparation in accordance with SSPC-SP 1 to remove all contaminants and white rust
 - 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 – 2.0 mils (25 – 50 µm) in accordance with SSPC SP-16.
 - New, or otherwise un-weathered galvanized surfaces or galvanized surfaces that have been passivated with a chromate treatment must be prepared in accordance with SSPC-SP 16. Coatings may not adhere to chromate sealed galvanizing if the chromates are not completely removed
 - For increased corrosion resistance prime with AQUAPON® WB EP Primer
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Aged coatings and repairs

- Ensure the coating system is sound and well adhered
 - Sweep blast in accordance with SSPC SP-7 or otherwise thoroughly abrade the existing coating
 - Rusted or otherwise damaged areas should be power tool cleaned in accordance with SSPC-SP 3, feathering the edges of tightly adhered intact coating at the perimeter of repair areas
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Interior wood

- Surface must be clean dry and sound
 - Knots and pitch streaks must be scraped, sanded, and spot primed before full coat of primer is applied
 - All nail holes or small openings must be properly caulked
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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%
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SYSTEM SPECIFICATION

- Primers for concrete: Self priming, AQUAPON WB EP Primer, PITT-TECH PLUS EP Primer series, SEAL GRIP 17-921XI, PITTGUARD epoxies, AMERLOCK epoxies, AMERCOAT 370, AMERCOAT 385, AMERCOAT 240
- Primers for CMU: 95-217, AMERLOCK 400 BF, 4-100
- Primers for drywall: 6-2 or self priming
- Primers for metal: Self priming, AQUAPON WB EP Primer, PITTGUARD epoxies, AMERLOCK epoxies, AMERCOAT 370, AMERCOAT 385, and AMERCOAT 240

Note:

- Using a primer for metal will provide maximum corrosion resistance when exposed to more aggressive conditions.
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INSTRUCTIONS FOR USE

Mixing ratio by volume: base to hardener 4:1

- Pre-mix base component to homogenize the container. Add hardener and stir for 2-3 minutes until completely dispersed. Drill mixers and pneumatic mixers are also suitable and may be more efficient when mixing 5-gallon kits.
 - Immediately after mixing, as the material sits it may appear to increase in viscosity. However, upon mixing again after 2-3 minutes the viscosity will return to the initial state
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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

Note:

- Keep material from freezing
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Material temperature

- Material temperature during application should be between 50°F (10°C) and 80°F (27°C)
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Pot life

5 hours at 70°F (21°C)

Note:

- Do not use after pot life has expired as diminishment in performance will occur
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Air spray

- Use standard conventional equipment

Recommended thinner

Tap water

Volume of thinner

0 - 5%

Nozzle orifice

Approx. 0.070 in (1.8 mm)

Nozzle pressure

Atomizing pressure 55 - 70 p.s.i. (4.0 - 5.0 bar); Fluid pressure as required

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Airless spray

- 30:1 pump or larger

Recommended thinner

Tap water

Volume of thinner

0 - 5%

Nozzle orifice

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

Nozzle pressure

2000 - 2500 p.s.i. (approx. 138 - 173 bar; 13.8 - 17.2 MPa)

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
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ADDITIONAL DATA

Overcoating interval for DFT up to 2.0 mils (50 µm)				
Overcoating with...	Interval	50°F (10°C)	70°F (21°C)	90°F (32°C)
itself	Minimum	16 hours	6 hours	4 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.

Curing time for DFT up to 2.0 mils (50 µm)		
Substrate temperature	Dry to touch	Dry to handle
50°F (10°C)	3 hours	16 hours
70°F (21°C)	1 hour	6 hours
90°F (32°C)	40 minutes	4 hours

Notes:

- Adequate ventilation must be maintained during application and curing
- Dry times can vary based on environmental and substrate conditions

Pot life (at application viscosity)	
Mixed product temperature	Pot life
50°F (10°C)	8 hours
70°F (21°C)	5 hours
90°F (32°C)	3 hours

Product Qualifications



AQUAPON® WB EP

- Meets MPI Category #115, Epoxy-Modified Latex, Interior, Gloss, MPI Gloss Level 6
- Meets MPI Category #215, Epoxy-Modified Latex, Interior, Semi-Gloss, MPI Gloss Level 5
- Compliant with USDA Incidental Food Contact Requirements

DISCLAIMER

- For industrial or professional use only

SAFETY PRECAUTIONS

- Read all label and Safety Data Sheet (SDS) information prior to use
- 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

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.

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.ppgmc.com. The English text of this sheet shall prevail over any translation thereof.

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AVAILABILITY OF PACKAGING

Packaging

- 2-gallon and 10-gallon kits

Depending on specific country of application the following versions are available:

Product	Color
98E-1	Porcelain White
98E-51	Pastel Base
98E-2	Black
98E-13	Safety Yellow
98E-9	Tile Red
98E-4	ASA #49 Gray
98E-3	Light Gray
98E-98	Gloss Hardener
98E-56	Midtone Base
98E-11	Safety Blue
98E-10	Safety Red
98E-100	Semi-gloss Hardener

