

# PPG AQUATAPOXY® A-61

## DESCRIPTION

100% solids, high-build epoxy for use in potable water applications

## PRINCIPAL CHARACTERISTICS

- Solvent free
- Fast curing
- Single coat application
- Excellent corrosion resistance
- Certified to NSF/ANSI Standard 61 for potable water tanks and pipes
- Meets the requirements of AWWA C210
- TYPICAL USES:
- Potable water tanks, reservoirs, basins and pipes
- Water distribution and transmission lines of 30 in. (76 cm) or greater in diameter

Note: Information Sheet available with test and certification data

## COLOR AND GLOSS LEVEL

- Part A is White, Part B is Green; Mixed product is Aqua
- Part A is White, Part B is Translucent Brown; Mixed product is White
- Semi-gloss

Note: Color changes can occur under UV-exposure without negative impact on the product performance

## BASIC DATA AT 72°F (22°C)

Data for mixed product	
Number of components	Two
Mass density	11.7 lb/US gal (1.4 kg/l)
Volume solids	100%
VOC (Supplied)	EPA Method 24: 0.0 lb/US gal (0.1 g/l)
Recommended dry film thickness	8.0 - 120.0 mils (200 - 3000 µm) per coat
Theoretical spreading rate	201 ft <sup>2</sup> /US gal for 8.0 mils (4.9 m <sup>2</sup> /l for 200 µm) 13 ft <sup>2</sup> /US gal for 120.0 mils (0.3 m <sup>2</sup> /l for 3000 µm)
Dry to touch	3 hours
Overcoating Interval	Minimum: Not applicable Maximum: Not applicable



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## Data for mixed product

Curing time	5 hours
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### Notes:

- See ADDITIONAL DATA – Spreading rate and film thickness
- If a second coat or repair is required, visually inspect, clean and dry surface thoroughly to remove all contamination, including amine blush or condensation.
- Abrade the surface before recoating to create clean, rough, dull, and dry surface.
- Curing time reflects ready for service time
- The shelf life for the unmixed components (Part A and Part B) for this product is 12 months at 70°F (21°C).
- Refer to Application Guide for additional information

## RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

### Steel (Immersion Service)

- Remove all surface contaminants, oil and grease in accordance with SSPC SP-1
- Abrasive blast with an angular abrasive to an SSPC SP-10 cleanliness or higher. Achieve a surface profile of 2.5 – 5.0 mils (64 – 125 µm)
- Ensure surface is dust free after blasting

### Steel (Non-Immersion Service)

- Remove all surface contaminants, oil and grease in accordance with SSPC SP-1
- Abrasive blast with an angular abrasive to an SSPC SP-6 or higher. Achieve a surface profile of 2.5 – 4.0 mils (65 – 100 µm)
- Ensure surface is dust free after blasting

### Ductile Iron

- All oils, small deposits of asphalt paint, and grease shall be removed by solvent cleaning per NAPF 500-03-01
- Abrasive blast in accordance with NAPF 500-03-04

### Concrete / Masonry

- Surface must be sound and free from contamination (such as oil, grease, rust, scale, or deposits).
- Abrade surface to achieve a surface profile equivalent to CSP 3 to CSP 5 in accordance with ICRI 310.2R-2013
- Prepare in accordance with SSPC SP-13 guidelines



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## **Substrate temperature and application conditions**

- Substrate temperature during application should be between 10°C (50°F) and 49°C (120°F)
- Ambient temperature during application should be between 10°C (50°F) and 49°C (120°F)
- Substrate temperature during application and curing should be at least 3°C (5°F) above dew point
- Relative humidity during application should not exceed 85%

Note: For best results in limiting outgassing, apply to prepared concrete when the substrate temperature is stable or falling

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## **SYSTEM SPECIFICATION**

- Recommended DFT for Steel (Atmospheric): 25-40 mils (0.6-1.0 mm)
- Recommended DFT for Steel (Immersion): 26-80 mils (0.7-2.0 mm)
- Recommended DFT for Non-Ferrous Metals: 8-18 mils (0.2-0.5 mm)
- Recommended DFT for Ductile Iron: 20-24 mils (0.5-0.6 mm)
- Recommended DFT for Concrete: 60-120 mils (1.5-3.0 mm)
- Primers for concrete (optional): PPG RAVEN® 175 Primer, PPG RAVEN® 171FS Primer, PPG RAVEN® 155 Primer
- Primers for Carbon Steel: PPG AQUATAPOXY® 190 Primer, PPG PW-1 Primer

### Notes:

- \*Do not use this primer if immersion temperatures will exceed 140°F (60°C)
  - \*\*Penetrating primer for limiting outgassing
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## **INSTRUCTIONS FOR USE**

- Apply by airless spray
  - Pre-heating containers must not exceed temperatures greater than 150°F (66°C)
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### **Mixing ratio by volume: Part A to Part B 75:25 (3:1)**

- Mix Part A and Part B separately to ensure uniformity. Then thoroughly mix the entire contents of both parts of the kit together
  - Transfer contents to a clean pail and continue mixing for at least 1 minute
  - Scrape sides and bottom to obtain a thorough mix before application
  - Properly mixed material will be a uniform color without light or dark spots
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### **Pot life**

20 minutes at 72°F (22°C)

Note: Longer pot life is possible by mixing smaller amounts and cooling down the components before mixing

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## **Airless spray: Plural component**

- 3:1 Heated Plural Component Spray system is recommended
- Heated hoses are recommended
- Recommended tip size: 525-531
- Pot life at whip/gun: 1-2 minutes

## **Recommended thinner**

No thinner should be added

### Notes:

- Part A should be maintained at temperature range of 125-135°F (52-57°C)
- Part B should be maintained at temperature range of 110-115°F (43-46°C)

## **Cleaning solvent**

MEK, acetone or xylene

## **Cleaning procedures**

- Cured product may be disposed of without restriction
- Excess component material (Part A and Part B) should be mixed together and disposed in a normal manner
- Product containers that are 'drip free' may be disposed according to local, state and federal laws

## **ADDITIONAL DATA**

<b>Spreading rate and film thickness</b>	
<b>DFT</b>	<b>Theoretical spreading rate</b>
8.0 mils (203 µm)	201 ft <sup>2</sup> /US gal (4.9 m <sup>2</sup> /l)
12.0 mils (304 µm)	134 ft <sup>2</sup> /US gal (3.3 m <sup>2</sup> /l)
16.0 mils (406 µm)	101 ft <sup>2</sup> /US gal (2.5 m <sup>2</sup> /l)
18.0 mils (457 µm)	89 ft <sup>2</sup> /US gal (2.2 m <sup>2</sup> /l)
20.0 mils (508 µm)	80 ft <sup>2</sup> /US gal (2.0 m <sup>2</sup> /l)
24.0 mils (609 µm)	67 ft <sup>2</sup> /US gal (1.6 m <sup>2</sup> /l)
40.0 mils (1016 µm)	40 ft <sup>2</sup> /US gal (1.0 m <sup>2</sup> /l)
60.0 mils (1524 µm)	27 ft <sup>2</sup> /US gal (0.7 m <sup>2</sup> /l)
120.0 mils (3048 µm)	14 ft <sup>2</sup> /US gal (0.3 m <sup>2</sup> /l)

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Physical data of cured material	
Characteristic	Value
Tensile Strength (ASTM D638)	7,700 psi (53 MPa)
Tensile Elongation (ASTM D638)	1.2%
Compressive Strength (ASTM D695)	16,600 psi (115 MPa)
Flexural Strength (ASTM D790)	10,600 psi (73 MPa)
Hardness, Shore D (ASTM D2240)	88
Taber Abrasion (ASTM D4060, CS-17 Wheel, 1 kg load, 1,000 cycles)	<111 mg loss
Adhesion to Steel (ASTM D4541)	>2,000 psi (>14 MPa)
Adhesion to Concrete (ASTM D7234)	To substrate failure

Note: The value ranges stated in this Technical Data Sheet are based on system processing under laboratory conditions. Equipment configurations and/or field application conditions may produce variances in final system values.

## DISCLAIMER

- PPG Protective & Marine Coatings does not accept any responsibility or liability for any odor, taste or contamination imparted to the drinking water from the coatings or products retained in the coating
- For industrial or professional use only

## SAFETY PRECAUTIONS

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

## 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.

## WARRANTY

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