



# AquataPoxy A-61

## DESCRIPTION-----

AquataPoxy® A-61 is a solvent-free, 100% solids, high build epoxy coating, formulated for broad range corrosion protection, A-61 is also certified safe for cold potable water with a 5 hour cure time.

## TYPICAL USES-----

- Water distribution and transmission lines 30” and larger
- Water tanks 50 gallons and larger
- Water treatment storage reservoirs
- Pharmaceutical and food facilities
- General maintenance

## COLOR-----

Aqua and white are the product colors.

## SOLIDS BY VOLUME-----

100% solids by volume

Volatile Organic Compounds: 0.0 pounds per gallon

## FILM THICKNESS-----

AquataPoxy A-61 is a 100% solids epoxy with zero shrinkage. Wet film thickness and dry film thickness are the same (i.e. 100 mils WFT = 100 mils DFT).

## THEORETICAL COVERAGE-----

Theoretical coverage is 16 square feet per gallon at 100 mils thickness. Actual surface coverage will depend on surface irregularities and desired result. Recommended surface coverage will vary depending on the project requirements.

## APPLICATION METHOD-----

Apply by brush, roller, spincast, heated plural component airless or air-assisted spray or other suitable method. For specific information on application, spray system design, approved systems and Certified Applicators, contact RLS.

## THINNING-----

**Do not thin with solvents;** the addition of solvent may result in pinholes and poor adhesion. If lower viscosity is needed, heat unmixed material by placing the containers in hot tap water (approximately 130°F) until the desired flow characteristics are present. For larger quantities, drum heaters and the spray equipment inline heaters may be used. Material components should not be heated beyond manufacturer’s suggested limits.

## CLEAN UP-----

Use acetone, MEK or xylene to clean tools. Wash immediately and thoroughly with soap and water to clean skin. Refer to the Material Safety Data Sheet for additional information on health and safety.

## POT LIFE-----

Pot life is 20 minutes for 1 gallon at 72°F.

The working life varies depending on the amount and temperature of epoxy mixed, ambient temperature and the container in which the mixed material is held.

## CURE TIME-----

Thin film set time varies with substrate temperature and application thickness. Generally, the coating will be tack-free in 3 hours at 75°F and dry-hard in 4.5 hours. A-61 is designed for single coat applications.

**POTABLE WATER PIPELINES:** After 5 hour cure at 72°F, follow standard plumbing practices for clearing sand, debris or contaminants prior to service by flushing with 72°F potable water at 2.5 to 3.5 gallons per minute.

## SURFACE TEMPERATURE-----

Minimum recommended: 50°F

Maximum recommended: 120°F

## CERTIFICATIONS-----

**Potable Water:** AquataPoxy A-61 is certified to the requirements of ANSI/NSF Standard 61 - Drinking Water System Components.

**USDA:** AquataPoxy A-61 is acceptable as a coating for application to surfaces where there is a possibility of incidental food contact.

**AWWA:** AquataPoxy A-61 meets the physical and performance requirements of ANSI/AWWA C 210, “Liquid Epoxy Coating Systems for the Interior and Exterior of Steel Water Pipelines”.

# AquataPoxy A-61

## **SURFACE PREPARATION**

Prior to coating, all surfaces must be clean, sound, dry and free of all contaminants, such as oil, grease, rust, scale, laitance and deposits. In general, coating performance is proportional to the degree of surface preparation.

**STEEL** surfaces may require "Solvent Cleaning" (SSPC-SP1) to remove oil, grease and other soluble contaminants. Surfaces to be coated should then be prepared according to SSPC-SP10 or NACE No. 2: "Near White Blast Cleaning". In certain situations, an alternate procedure may be to use high (>5,000 psi) or ultrahigh (>10,000 psi) pressure water cleaning or water with sand injection and an approved rust inhibitor. The anchor profile for surface preparation must be a minimum of 2 mils.

**CONCRETE AND MASONRY** surfaces must be sound and contaminant free with a rough surface similar to 80-grit sandpaper at a minimum. This can generally be achieved by abrasive blasting, shot blasting, high pressure water cleaning, water jetting, or a combination of methods.

## **COMPONENTS AND MIXING**

Part A, Resin: Part B, Hardener mix ratio is 3:1 by volume.

Individually mix both Part A and Part B containers prior to metering 3 parts of Part A to 1 part of Part B by volume into a clean container. Completely mix combined A & B for a

minimum of one minute before transferring contents to a clean container. Continue mixing in the clean container a minimum of one minute before application. Be certain to scrape the sides frequently to attain a thorough mix. Properly mixed material will be a uniform color.

## **AVAILABLE PACKAGES**

Available in 5 gallon pails (20 gallon kits) 30 gallon drums (120 gallon kits) and 55 gallon drums (220 gallon kits). Kits are supplied in the correct proportions of A & B, components must be mixed together before use. AquataPoxy A-61 is available through Certified Applicators.

## **SHELF LIFE AND STORAGE**

Shelf life is 1 year from purchase date in sealed, unmixed containers stored in a sheltered area between 60°F and 80°F (15°C and 27°C).

## **SAFETY**

Consult the Material Safety Data Sheet for this product concerning health and safety information before using. Strictly follow all notices on the Material Safety Data Sheet and container label. If you do not fully understand the notices and procedures provided; or if you cannot strictly comply with them, do not use this product. Actual safety measures are dependent on application methods and work environment. Contact RLS at 1-800-324-2810 to obtain a copy of the Material Safety Data Sheet.

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## **PERFORMANCE TESTING**

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<b>DESCRIPTION</b>	<b>METHOD</b>	<b>RESULT</b>
Tensile Strength	ASTM D 638	7,700 psi
Tensile Ultimate Elongation	ASTM D 638	1.2%
Compressive Strength	ASTM D 695	16,600 psi
Flexural Strength	ASTM D 790	10,600 psi
Hardness, Shore D	ASTM D 2240	88
Adhesion	ASTM D 4541, Steel (SSPC SP-10) Concrete	>2,500 psi Substrate Failure
Temperature Resistance	Steel, Unprimed and Concrete	200°F

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