



AquataPoxy A-6

DESCRIPTION

AquataPoxy® A-6 and A-6 Thick are solvent-free, 100% solids, corrosion resistant epoxy coatings that can be applied to dry or damp surfaces. Formulated for broad range corrosion protection as well as certified safe for potable water and incidental food contact.

TYPICAL USES

Any surface where corrosion and water resistance is needed, including:

- Potable water structures
- Water mains, distribution and transmission lines
- Tanks, reservoirs and basins
- Secondary containment
- General maintenance

COLOR

White is the standard product color. Black, blue, gray, green and tan are available. Special colors are available on a limited basis. Contact RLS for more information and verification of NSF 61 certified colors.

SOLIDS BY VOLUME

100% solids by volume.

Volatile Organic Compounds: 0.0 lbs/gallon

FILM THICKNESS

AquataPoxy A-6 is a 100% solids epoxy with zero shrinkage. Therefore, actual wet film thickness and final dry film thickness are the same (i.e. 10 mils WFT = 10 mils DFT). Generally, 8-10 mils (A-6) or 10-80 mils (A-6 Thick) maximum per coat are recommended to prevent sagging on vertical or overhead surfaces. Repeat applications may be necessary to achieve specified coating thickness.

THEORETICAL COVERAGE

160 sq. ft. per gallon at 10 mils thickness. Actual surface coverage will depend on surface irregularities. Trials are recommended to determine the actual coverage required to yield a desired film thickness for each individual type of installation. Recommended thickness will vary from 20-150+ mils depending on the installation. Additional information is available by contacting RLS.

APPLICATION METHOD

Brush, roller, heated plural component airless or air-assisted spray. For specific information on application, spray system design, approved systems and Certified Applicators contact RLS.

THINNING

Do not thin with solvents; pinholing and loss of adhesion can result. Drum heaters and inline heaters on specialized spray systems can be used to lower viscosity of the epoxy. Material components should not be heated beyond manufacturer's suggested limits.

CLEAN-UP

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

POT LIFE

30 minutes for 1 gallon at 75°F.

20 minutes for 2 gallons at 75°F.

The amount of pot life and working life will vary depending on the quantity and temperature of epoxy mixed, ambient temperature and the container in which the mixed material is held. Contact RLS for additional information.

CURE AND RECOAT TIME

Initial set generally occurs within 8 hours at 70°F. Curing continues for several days, even underwater. When applying multiple coats, no more than 24 hours at 70°F should be permitted to pass between coats. Environmental conditions may shorten this window. Protect surfaces from contamination of any type between coats. Before recoating, inspect, dry and clean surface thoroughly to remove all contaminants, including amine blush and condensation. If the recoat window is missed, clean and abrade surfaces prior to topcoating. For additional information contact RLS.

SURFACE TEMPERATURE

Minimum recommended: 40°F.

Maximum recommended: 120°F.

CERTIFICATIONS

Potable Water: AquataPoxy A-6 and A-6 Thick are certified to the requirements of ANSI/NSF Standard 61-Drinking Water System Components. Contact RLS for certified colors.

USDA: AquataPoxy A-6 and A-6 Thick are acceptable as coatings for application to surfaces where there is a possibility of incidental food contact.

AWWA: AquataPoxy A-6 and A-6 Thick meet the physical and performance requirements of ANSI/AWWA C 210-03, "Liquid-Epoxy Coating Systems for the Interior and Exterior of Steel Water Pipelines".

AquataPoxy A-6

SURFACE PREPARATION

Surfaces to receive coating must be cleaned of all oil, grease, rust, scale, deposits and other contaminants. Contact RLS for additional recommendations.

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 (>5,000psi) or ultrahigh (>10,000psi) 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 can generally be prepared by high pressure water cleaning, water jetting, abrasive blasting, shotblasting, or a combination of methods.

COMPONENTS AND MIX RATIO

Part A, Resin. Part B, Hardener. 1:1 by volume.

When mixing by hand, individually mix both Part A and Part B containers prior to metering 1 part of Part A to 1 part of Part B by volume into a clean container. Completely mix combined components before transferring contents to a clean container. Continue mixing in the clean container before application, scraping the sides frequently to attain a thorough mix. Component containers need to be mixed prior to metering if contents have settled.

AVAILABLE PACKAGE

Pint cans (quart kit), 1 gallon pails (2 gallon kit), 5 gallon pails (10 gallon kit), 30 gallon drums (60 gallon kit). 55 gallon drums (110 gallon kit). Packages are sold in multiples of two: Part A and Part B. AquataPoxy A-6 is available through Certified Applicators.

SHELF LIFE AND STORAGE

Shelf Life: 1 year in sealed, unmixed containers at room temperature. Store in a sheltered area between 60°F and 80°F (15°C and 27°C).

Viscosity

A-6: Part A, 10-18,000 cps, Brookfield RVF.
Part B, 80-140,000 cps, Brookfield RVF.
A-6 Thick: Part A, 10-18,000 cps, Brookfield RVF.
Part B, 80-140,000 cps, Brookfield RVF.

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 to obtain a copy of the Material Safety Data Sheet at 800-324-2810.

PERFORMANCE TESTING

DESCRIPTION	METHOD	RESULT
Flexural Strength	ASTM D790	9,400 psi
Compressive Strength	ASTM D695	10,000 psi
Tensile Strength	ASTM D638	6,000 psi
Tensile Ultimate Elongation	ASTM D638	1.3%
Hardness, Shore D	ASTM D2240	87
Taber Abrasion, CS17 Wheel	ASTM D4060, 1000 g load/1000 cycles	< 40 mg. loss
Adhesion	ASTM D4541, Steel (SSPC SP-10) Concrete	> 1000 psi Substrate Failure
Temperature	Steel, unprimed and Concrete	200°F

Warranty and Disclaimer: RLS, a division of CIPAR, Inc., warrants its products to be free of manufacturing defects and that they will meet RLS current published physical properties when applied in accordance with directions and tested in accordance with ASTM and RLS standards. If, within one year from purchase, any product does not meet the physical properties or is defective in manufacture, RLS, at its sole option, will either replace the defective product or refund the purchase price. This warranty is void if the product is used contrary to RLS written directions.

THE AFORESAID IS THE EXCLUSIVE WARRANTY AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. THERE IS NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE. UNDER NO CIRCUMSTANCES SHALL RLS BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES OR FOR LOST PROFITS. NO ACTION AGAINST RLS MAY BE COMMENCED MORE THAN ONE YEAR AFTER THE CLAIM ARISES.