



# AquataPoxy A-6 SuperFlex

## DESCRIPTION

AquataPoxy® A-6 SuperFlex is a flexible solvent-free, 100% solids, toughened, corrosion resistant epoxy coatings that can be applied to dry or damp surfaces. Formulated for broad range corrosion protection and to-be certified safe for potable water.

## TYPICAL USES

Formulated for use on surfaces where corrosion and water resistance is needed, including:

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

## COLOR

The standard Part A Resin is white; the Part B Curing Agent is brown. When mixed the product is an off-white color.

## SOLIDS BY VOLUME

100% solids by volume

Volatile Organic Compounds: 0.0 pounds per gallon

## FILM THICKNESS

A maximum of 40 mils per coat is recommended to prevent sagging, depending on substrate type and profile. Typical recommended thickness for immersion duty is 16-80 mils on metal. This product is a 100% solids epoxy with zero shrinkage, so wet film thickness and dry film thickness are the same (i.e. 40 mils WFT = 40 mils DFT).

ANSI/NSF 61 maximum dry film thickness is 40 mils for pipes  $\geq 48''$  and for tanks  $\geq 5,000$  gallons.

## COVERAGE

Theoretical coverage is 40 square feet per gallon at 40 mils wet film thickness. Actual surface coverage will depend on substrate porosity and roughness. Good painting practices suggest application of two coats for quality assurance. A wet film thickness gauge may be used to determine actual coating coverage.

## APPLICATION

Apply with brush, roller, airless or air-assisted spray or other suitable method. Optimal proportioning and mixing is achieved with the use of an RLS approved plural component airless spray system. For best results, apply this product to concrete when its temperature is stable or falling.

## COMPONENTS AND MIX RATIO

Part A Resin:Part B Curing Agent mix ratio is 2:1 by volume

## THINNING

**Do not thin with solvents.** If lower viscosity is needed, heat unmixed material by placing the containers in hot tap water until the desired flow properties are obtained. To heat larger quantities, drum heaters or inline heaters on specialized spray equipment may be used. Unmixed material should not be heated above 150°F.

## HAND MIXING

Individually power mix both Part A and Part B containers prior to measuring out 2 parts of Part A to 1 part of Part B by volume in a clean disposable pail. Use a heavy-duty drill with a Hanson plunge mixer and mix at 500-700 rpm for three minutes. Scrape the sides and bottom while transferring to a clean pail and continue mixing at least another minute before application. Properly mixed material will be a uniform color without light or dark spots.

## CLEAN UP

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

## POT LIFE

The pot life is 60 minutes for one gallon at 72°F. The working life varies depending on the amount and temperature of epoxy mixed and the ambient temperature.

## CURE TIME

Thin film set time varies with substrate temperature and application thickness. Generally, the coating will be tack-free in 4 ½ hours at 72°F and dry-hard in about 7 hours, cure-time before potable water service is 3 days.

## RECOAT TIME

This product may be recoated as soon as it becomes tacky but does not transfer to the finger. When applying multiple coats, do not allow more than 18 hours at 72°F substrate temperature to pass between coats, higher temperatures will shorten this window. Before recoating; inspect, clean and dry surface thoroughly to remove all contamination, including amine blush or condensation. If the recoat time is missed, clean and abrade surfaces prior to recoating.

## SUBSTRATE TEMPERATURE

Minimum recommended substrate temperature: 40°F

Maximum recommended substrate temperature: 120°F

## TEMPERATURE RESISTANCE

Maximum recommended dry temperature: 200°F. Wet

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temperature resistance depends on chemical concentration and exposure time.

emission rates greater than 3 lbs/1,000 ft<sup>2</sup>/24 hours, when tested per ASTM F 1869, be primed with Raven 155.

## SURFACE PREPARATION

Prior to coating, the substrate must be prepared in a manner that provides a uniform, clean, sound, neutralized surface suitable for the specified coating. The substrate must be free of all contaminants, such as oil, grease, rust, scale or deposits. In general, coating performance is proportional to the degree of surface preparation.

**STEEL** surfaces may require “Solvent Cleaning” (SSPC-SP 1) to remove oil, grease and other soluble contaminants. Chemical contaminants may be removed according to SSPC-SP 12/NACE No. 5. Identification of the contaminants along with their concentrations may be obtained from laboratory and field tests as described in SSPC-TU 4 “Field Methods for Retrieval and Analysis of Soluble Salts on Substrates”. Surfaces to be coated should then be prepared according to SSPC-SP 5/NACE No.1 “White Blast Cleaning” for immersion service or SSPC-SP 10/NACE No. 2 “Near White Blast Cleaning” for all other service. In certain situations, an alternate procedure may be to use high (>5,000 psi) or ultrahigh (>10,000 psi) pressure water cleaning or water cleaning with sand injection and an approved rust inhibitor. The resulting anchor profile shall be 2.5-5.0 mils and be relative to the coating thickness specified.

**CONCRETE AND MASONRY** surfaces must be sound and contaminant-free with a surface profile equivalent to a CSP2 to CSP5 in accordance with ICRI Technical Guideline No. 03732. This can generally be achieved by abrasive blasting, shot blasting, high pressure water cleaning, water jetting, or a combination of methods. RLS Solutions recommends that concrete exhibiting water moisture vapor

## AVAILABLE PACKAGES

Available in pints (3 pint kit), one gallon pails (3 gallon kit), 5 gallon pails (15 gallon kit), 30 gallon drums (90 gallon kit) and 55 gallon drums (165 gallon kit). Kits are supplied in the correct proportions of A & B; these two components must be mixed together before use. This product is available through Raven Certified Applicators.

## SHELF LIFE AND STORAGE

Product shelf life is 1 year from purchase date in original unopened 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 on the MSDS 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.

## CERTIFICATIONS

**Potable Water:** This product is to-be certified to the requirements of ANSI/NSF 61 - Drinking Water System Components.

**AWWA:** This product meets the physical and performance requirements of ANSI/AWWA C 210, “Liquid Epoxy Coating Systems for the Interior and Exterior of Steel Water Pipelines.

## TYPICAL PROPERTIES<sup>(1)</sup>

DESCRIPTION	METHOD	RESULT
Tensile Strength	ASTM D 638	2,030 psi
Tensile Ultimate Elongation	ASTM D 638	12.9%
Compressive Strength	ASTM D 695	9,400 psi
Hardness, Shore D	ASTM D 2240	80
Direct Impact Resistance	ASTM D 2794	38 in. lbs.
Taber Abrasion, CS-17 wheel	ASTM D 4060, 1 kg load/1,000 cycles	88 mg loss
Adhesion, Steel (SSPC-SP 10)	ASTM D 4541	>1,500 psi
Adhesion, Concrete	ASTM D 7234	Substrate Failure

(1) Typical properties are to be considered as representative of current production and should not be construed as specifications.

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