



AquataPoxy A-7

DESCRIPTION

AquataPoxy® A-7 is a solvent-free, 100% solids, corrosion resistant epoxy grout that can be applied to dry, wet or underwater surfaces. A-7 was formulated for broad range corrosion protection as well as certified safe for potable water and incidental food contact.

TYPICAL USES

Any surface where large cracks, voids, pockmarks or small holes need to be filled or patched. Surfaces repaired with A-7 can be immediately topcoated to provide excellent water or corrosion resistance, including:

- Potable water facilities and structures
- Wastewater facilities and structures
- Tanks
- Secondary containment
- General maintenance

COLOR

White

SOLIDS BY VOLUME

100% solids by volume.

Volatile Organic Compounds: 0.0 lbs/gallon

FILM THICKNESS

AquataPoxy A-7 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, a maximum of 1/2" per coat is recommended to prevent sagging on vertical or overhead surfaces. Repeat applications may be necessary to achieve specified thickness.

THEORETICAL COVERAGE

16 sq. ft. per gallon at 100 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. Additional information is available by contacting RLS.

APPLICATION METHOD

Apply like any grout or putty. Use pressure to apply with putty knife, trowel or gloved hand to dry, damp or underwater surfaces. For additional information on application or Certified Applicators, contact RLS

THINNING

Do not thin with solvents; pinholing and loss of adhesion can result. If lower viscosity is desired, heat unmixed material by placing containers in hot (130°F) tap water or, if sun is available, place the containers in the hot sun until the desired handling characteristics are present. Material components should not be heated beyond manufacturer's suggested limits. Contact RLS for additional information.

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

40 minutes for 1 gallon at 75°F.

30 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: 50°F.

Maximum recommended: 120°F.

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CERTIFICATIONS

Potable Water: AquataPoxy A-7 is certified to the requirements of ANSI/NSF Standard 61-Drinking Water System Components.

USDA: AquataPoxy A-7 is acceptable as a grout for application to surfaces where there is a possibility of incidental food contact.

SURFACE PREPARATION

Surfaces to receive grout must be cleaned of all oil, grease, rust, scale, deposits and other contaminants.

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 ultra-high (>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 can generally be prepared by high pressure water cleaning, water jetting, abrasive blasting, shotblasting or a combination of methods.

WOOD surfaces should have all old, softened or rotten areas removed. The area to be coated should be sanded, then rinsed or cleaned to remove dust and loose particles. Allow the surface to dry thoroughly. A penetrating primer such as low viscosity Raven 110 or 120 may be recommended as a primer.

FIBERGLASS surfaces should be rinsed and neutralized, scarified and cleaned with water or an emulsion of solvent and water to remove remaining dust and loose particles. Allow the surface to dry thoroughly.

AVAILABLE PACKAGES

Quart kits and two gallon kits. Kits include components for proper mix ratio.

COMPONENTS AND MIX RATIO

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

VISCOSITY

Part A, 800,000-1,500,000 cps.

Part B, 1,000,000-1,700,000 cps.

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).

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	6,080 psi
Flexural Modulus	ASTM D790	550,000 psi
Compressive Strength	ASTM D695	4,275 psi
Tensile Strength	ASTM D638	3,700 psi
Tensile Ultimate Elongation	ASTM D638	1.40%
Hardness, Shore D	ASTM D2240	85
Impact, IZOD	ASTM D256	0.19 ft. lb/in of Notch
Temperature Resistance		200° F

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