

COATING DATA

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 (NSF/ ANSI Standard 61) and incidental food contact.

TYPICAL USES:

Any surface where cracks, voids, pockmarks or small holes need to be patched. Surfaces repaired with AquataPoxy A-7 can be immediately coated with one of the Induron Coating Systems to provide excellent water or corrosion resistance. Examples include: waste water facilities, storage tanks, sewer system manhole restoration, aquariums, agricultural facilities, theme parks and general maintenance.

PERFORMANCE:

TEST	METHOD	CONDITION
FLEXURAL STRENGTH	ASTM D 790	6,080 psi
FLEXURAL MODULUS	ASTM D 790	550,000 psi
COMPRESSIVE STRENGTH, YIELD	ASTM D 695	4,275 psi
TENSILE STRENGTH	ASTM D 638	3,700 psi
TENSILE ULTIMATE LONGATION	ASTM D 638	1.40%
HARDNESS, SHORE D	ASTM D 2240	85
IMPACT IZOD	ASTM D 256	0.19 ft. lb/in of notch
TEMPERATURE	Steel, unprimed and Concrete	250°F

COLOR:

White

PHYSICAL DATA:

SOLIDS BY VOLUME : 100%

VOLATILE ORGANIC CONTENTS: 0.0 grams per liter; 0.0 pounds/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, 80-125 mils maximum per coat are recommended to prevent sagging on vertical or overhead surfaces. Repeat applications may be necessary to achieve specified thickness.

COVERAGE:

Theoretical—16 square feet 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.

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.

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 130°F tap water or, if sun is available, place the containers in the hot sun until the desired flow characteristics are present.

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 of epoxy mixed, ambient temperature and the container in which the mixed material is held.

CURE AND RECOAT TIME:

After Part A and Part B are mixed, epoxy goes through a stage called gelation where the coating becomes very sticky. This is followed by the initial set (generally 8 hours at 70°F). At this time, the coating can usually withstand light traffic or flow, but curing continues for several days even underwater. Although near maximum physical properties are achieved in 8 hours at 70°F, maximum chemical resistance may take three to seven days. When applying several coats to reach final dry film thickness, no more than 24 hours at 70°F should be permitted to pass between coats. Before recoating, clean surface thoroughly to remove all contaminants. The coated surface should be protected from contamination of any type between coats.

SURFACE TEMPERATURE:

Minimum recommended: 50°F - Maximum recommended: 120°F

CERTIFICATIONS:

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

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

SURFACE PREPARATION:

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

STEEL surfaces may require SSPC-SP 1 Solvent Cleaning to remove oil, grease and other soluble contaminants. Surfaces to be coated should then be prepared according to SSPC-SP 10 or NACE No. 2 Near White Blast Cleaning. The anchor profile for surface preparation must be a minimum of 2 mils.

CONCRETE AND MASONRY surfaces can generally be prepared by low- (3,500-5,000 psi) to high- (>5,000psi) pressure water cleaning, abrasive blasting, shotblasting or a combination of acid etching and water cleaning.

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.

AVAILABLE PACKAGES:

Pint cans (quart kit), 1-gallon pails (2-gallon kit), 5-gallon pails (10-gallon kit).

Packages are sold in multiples of two: Part A plus Part B.

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).

COMPONENTS AND MIX RATIO:

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

SAFETY:

Consult the Material safety Data Sheet for this product concerning health and safety information before using. Actual safety measures are dependent on application methods and work environment.

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