MANUFACTURER
Raven Lining Systems
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DESCRIPTION
AquataPoxy® A-6 and A-6 Thick are solvent-free, 100% solids, corrosion resistant epoxy coatings that can be applied to dry, damp or underwater surfaces. Formulated for broad range corrosion protection and certified safe for potable water.

PHYSICAL PROPERTIES (Typical)

<table>
<thead>
<tr>
<th>Description</th>
<th>Method</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile Strength</td>
<td>ASTM D 638</td>
<td>6,000 psi</td>
</tr>
<tr>
<td>Tensile Ultimate</td>
<td>ASTM D 638</td>
<td>1.3%</td>
</tr>
<tr>
<td>Elongation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Compressive Strength</td>
<td>ASTM D 695</td>
<td>10,000 psi</td>
</tr>
<tr>
<td>Flexural Strength</td>
<td>ASTM D 790</td>
<td>9,400 psi</td>
</tr>
<tr>
<td>Hardness, Shore D</td>
<td>ASTM D 2240</td>
<td>87</td>
</tr>
<tr>
<td>Taber Abrasion, CS-17 Wheel</td>
<td>ASTM D 4060, 1 kg load/1,000 cycles</td>
<td>&lt;40 mg loss</td>
</tr>
<tr>
<td>Adhesion, Concrete</td>
<td>ASTM D 7234</td>
<td>Substrate Failure</td>
</tr>
<tr>
<td>VOC’s</td>
<td>Calculated</td>
<td>0.0 lbs/gal</td>
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</tbody>
</table>

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. Other NSF/ANSI 61 colors available are black, blue and gray. Green, tan and other non-certified colors are available.

FILM THICKNESS
AquataPoxy A-6 is a 100% solids epoxy with zero shrinkage. Wet film thickness and dry film thickness are the same (i.e. 5 mils WFT = 5 mils DFT). Depending on substrate type and profile, a maximum of 10 mils of A-6 or 80 mils of A-6 Thick per coat is recommended to prevent sagging. Typical recommended thickness for immersion duty is 16-80 mils on metal and 60-120 mils on concrete.

NSF/ANSI 61 maximum dry film thickness for metallic pipe service: 26 mils; for tanks 50 gallons/189L or larger: 120 mils.

COVERAGE
Theoretical coverage is 160 square feet/14.86m² per gallon/3.78L at 10 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 a Raven Lining Systems approved plural component airless spray system. For best results, apply this product to concrete when its temperature is stable or falling.

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 170°F/76.66°C.

COMPONENTS AND MIX RATIO
Part A Resin: Part B Curing Agent mix ratio is 1:1 by volume.

HAND MIXING
Individually mix both Part A and Part B containers prior to measuring out 1 part of Part A to 1 part of Part B by volume into a clean disposable pail. Completely mix combined A & B for a minimum of one minute before transferring contents to a clean pail. Continue mixing at least another minute, scraping the sides and bottom, to obtain a thorough mix 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 30 minutes for one gallon/3.78L at 72°F/22.2°C. Longer pot life is possible by mixing smaller amounts and/or cooling down the part A & B before mixing.
CURE TIME
Thin film set time varies with substrate temperature and application thickness. Generally, the coating will be tack-free in 4 hours at 72°F/22.2°C and dry-hard in about 9 hours.

NSF/ANSI 61 cure time before service is 3 days at 77 °F/25°C.

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/22.2°C 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, abrade and clean surfaces prior to recoating.

SUBSTRATE TEMPERATURE
Minimum recommended substrate temperature: 40°F/4.44°C
Maximum recommended substrate temperature: 120°F/48.89°C

TEMPERATURE RESISTANCE
Maximum recommended dry temperature: 200°F93.3°C. Wet temperature resistance depends on chemical concentration and exposure time.

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. 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 minimum CSP3 to CSP5 in accordance with ICRI Technical Guideline No. 310.2R-2013. This can generally be achieved by abrasive blasting, shot blasting, high pressure water cleaning, water jetting, or a combination of methods.

AVAILABLE PACKAGES
Available in pints (quart/.94L kit), one gallon pails (2-gallon/7.57L kit), 5 gallon pails (10 gallon/37.85L kit), 30 gallon drums (60 gallon/227.12L kit) and 55 gallon drums (110 gallon/416.4L kit). Kits are supplied in the correct proportions of A & B; these two components must be mixed together before use.

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/16.55°C and 80°F/26.7°C.

SAFETY
SDS’s are available on the website (www.ravenlining.com) or upon request. All personnel should read and understand the safety recommendations as set forth in the SDS. Keep uncured product away from children at all times.

CERTIFICATIONS
Potable Water: AquataPoxy A-6 and A-6 Thick are certified to the requirements of NSF/ANSI 61 - Drinking Water System Components.

AWWA: AquataPoxy A-6 and A-6 Thick meet 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-6 and A-6 Thick also meet the requirements of ANSI/AWWA D 102, section 4.4.4: Inside Coating System No. 3.

Warranty and Disclaimer: Raven Lining Systems, Inc. (“Raven”) warrants its products to be free of manufacturing defects in accord with applicable Raven quality control procedures and that they meet the formulation standards of Raven. To the best of our knowledge the technical data contained herein is true and accurate on the date of publication and is subject to change without prior notice. If, within one year from purchase, any product is proven defective, Raven, 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 Raven’s written directions.

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