



**APPLICATION DATA-SHEET FOR HYDRO-POX 204 UHB: PROTECTION OF CONCRETE SURFACES IN MUNICIPAL AND INDUSTRIAL WASTEWATER TREATMENT COLLECTION SYSTEMS AND TREATMENT STRUCTURES.**

**1.0 SCOPE:**

- 1.1 This Application data-sheet covers surface preparation, application, inspection and testing of the HYDRO-POX 204 UHB protective lining system.
- 1.2 HYDRO-POX Lining Systems with documented resistance to Microbial Influenced Corrosion, Hydrogen Sulfide Gases, and other chemicals will fill, coat, seal, and protect the interior concrete surfaces of Manholes, Wet Wells, Clarifiers, Digesters, Sedimentation Basins, Sludge thickeners, Chlorine Contact Basins, and all related collection and treatment system substrates. When applied in accordance with this application data-sheet.

**2.0 CONTRACTORS:**

- 2.1 The Ultimate performance of HYDRO-POX depends on application by Licensed Professional Applicators, which shall be manufacture approved on a non-exclusive basis.

**3.0 SURFACE PREPARATION:**

- 3.1 All surfaces to be coated with HYDRO-POX 204 UHB must be clean, sound, dry and have an "open" capillary system to ensure penetration and mechanical bond (Adhesion). Remove all dirt, dust, cement laitence, efflorescence, form release agents, curing compounds, grease, oils, growths, etc. Surface Preparation is best accomplished by mechanical means, such as abrasive air blasting or high-pressure water blasting above 5000 psi. to achieve an anchor pattern similar to course sandpaper. For concrete reference applicable standards, ASTM D 4259, or NACE RPO892-92.
- 3.2 Any ferrous metal surface contained within the structure to be lined shall be cleaned according to SSPC SP-10, or NACE #2, and coated prior to flash rusting.

**4.0 APPLICATION:**

- 4.1 All prepared concrete surfaces shall fully saturated with HYDRO-POX 251 penetrating primer. (See HYDRO-POX 251 Data-sheet).
- 4.2 HYDRO-POX 204 UHB unlimited film build system is applied by plural component temperature controlled airless spray equipment. Best application is achieved with the minimum temperature and pressure to achieve atomization at the gun. (Contact manufacturer for specific equipment configuration).

- 4.3 The lining system shall be applied over a freshly primed in a single coat multiple pass application to achieve an 80-125 mil thickness. Successive coats must be applied within the recoat time period for proper bonding. (see HYDRO-POX 204 UHB data-sheet) For Successive coats applied after the recoat interval has been exceeded, a sweep blast will be necessary to remove any gloss to achieve a 2-4 mil anchor pattern to achieve proper bonding.
- 4.4 Eliminate pinholing and shadowing of the applied HYDRO-POX 204 UHB system by fully saturating the surface with HYDRO-POX 251, and applying HYDRO-POX 204 UHB in a decreasing temperature or shaded surface condition. Always use a multiple pass method when applying.
- 4.5 Complete cure of the HYDRO-POX system will take 3 days. Down time is avoided by allowing a structure to be returned to service after a thin film set. For immersion a minimum 24-hour cure is required.

**QUALITY ASSURANCE:**

- 5.1 The Contractor shall quality assure all work prior to owner furnished inspection.

**INSPECTION:**

- 6.1 The Entire procedure of installation: surface preparation and application should be inspected. Such inspection shall not relieve the contractor of its responsibility to furnish materials and perform work in accordance with these procedures.
- 6.2 When the owner furnishes and inspector, all coating work shall be done in the presence of the inspector. Any coating work done in the absence of the inspector is subject to rejection unless specifically allowed by the inspector.