

### SCOPE

Install a 100% solids monolithic coating to all interior surfaces of manholes or lift stations. Inverts are to be excluded unless they can be isolated from flow and dry. The use of specialized equipment and extensive surface preparation shall be performed before the application of any and all injection grouts, cementitious mortars, primers, and or coatings.

All products and equipment used to complete the final coatings system shall be approved by Engineered Coatings Solutions prior to application. The three main components to the ECS system are made up of HCM-25 cementitious mortar, HP-100 primer, and HT-200 topcoat. The applicator shall always initiate and enforce quality control procedures consistent with applicable ASTM standards. All work being performed shall be thoroughly inspected prior to application for safety hazards and any disparities in the surfaces that may interfere with proper preparation and application of the coatings system.

### APPLICATION

1. Create a safe and secure working environment.
2. Clean all surfaces with high pressure water to remove all loose or contaminated debris.
3. Vapor media blast substrate at no less than 185cfm and 100psi to remove all existing deteriorated material and corrosion. Final rinse to remove any remaining media particles.
4. The surface shall be tested to ensure the pH is within acceptable limits for the application of the resurfacer or build-back material.
5. Active water infiltration shall be stopped by means of injection grout or hydraulic cementitious mortar.
6. Apply HCM-25 cementitious mortar as needed to repair any loose brick or problematic areas. After all repairs have been made, the entire substrate shall be resurfaced ½ - 2 inches thick. Thickness will depend on the amount of deterioration the structure has experienced.
7. Dry structure with indirect heat for a minimum of ½ hour at 2,000cfm or until HCM-25 is light gray in color with no dark or wet areas. Larger structures may require additional heat time.
8. Protect all surroundings from overspray.
9. Spray apply HP-100 unheated plural component primer until substrate looks wet. Primer should be dry to the touch within 8 minutes and final cure is 25 minutes.
10. After HP-100 has reached final cure, spray apply HT-200 at 200 mils.

### TESTING AND INSPECTION

All surfaces are to be holiday tested for pinholes and other irregularities. At the same time, a visual inspection shall be performed. Any deficiencies in the finished system shall be marked and repaired according to the procedures set forth herein by Engineered Coatings Solutions.