

Attached below is a description of the coatings and materials to be used for the restoration of the concrete structure, exterior deck, deck support, railing and lantern wall panels. I have included the technical data sheets (TDS) and substrate preparation requirements from the manufacturers for the products provided.

Details will be prepared that help identify where material changes occur and integration of flashing, spacers and shims.

The paint specification is a PPG product that has been officially recognized and approved for use by the US Navy for use on battleships and submarines. This product is available in either gloss or satin finish. I have attached the letter from the US Navy for your reference.

Concrete Deck

1. Concrete deck must be completely exposed and sounded with a hammer to determine structural integrity prior to being prepared for any coating. The purpose of the sounding is to locate hollow pockets below the surface of the concrete or identify poorly consolidated or damaged concrete that could spall and provide an unstable substrate for the application of the membrane. This step should not be overlooked.
2. Any damage must be evaluated and repaired. Repair may include removal and replacement of reinforcing steel, application of corrosion inhibiting coatings for the steel and concrete and repair of the concrete surface with an appropriate repair mortar. A penetrating sealer or protective coating over the concrete may be necessary to prevent further damage. All damage must be reported to the architect for evaluation before proceeding.
3. After all necessary repairs are complete, the concrete surface must be prepared for the application of the primer and waterproof membrane to be applied. Preparation of the concrete surface and application of the primer and waterproof membrane is outlined in the attached literature.
4. A primer must be installed on the concrete surface. The primer, Aquafin SG3 must be installed per manufacturers requirements to a thickness of 16 mils wet.
5. CIM 1000 must be installed in declining temperatures per the manufacturers requirements to a thickness of 100 mils wet.
6. Where the concrete deck transitions to the lantern wall structure, and where the flange of the structural steel web is embedded in the concrete, the membrane must be fabric reinforced.

Aluminum Diamond Plate Deck, Steel Panels, Structural Steel Web, Steel Railing Posts, Steel Railing, Lantern Wall Structural Frame

1. Aluminum and steel components must be removed and prepared for a

- new coating. Preparation information is attached below.
2. All aluminum and steel components must be primed with PPG Amerlock 2 primer with a total thickness of 8 mils dry.
 3. All aluminum and steel components are to be coated with the PPG PSX 700 (Gloss Coat) or PSX 805 (Satin Coat) with a total thickness of 6 mils dry.

Sealant

1. Sealant is to be used to seal and detail the steel panels and steel flat bars when being mounted to the lantern wall frame.
2. The sealant is Tremco Spectrem 2, a single component medium-modulus silicone sealant.
3. Due to the hardness of the PPG paint coating, the coating must be lightly abraded with 120 grit sandpaper where contact with the sealant will be made.
4. Perform a sealant adhesion test prior to application of sealant to panels.
5. Lightly abrade PPG paint coating of all surfaces in contact with sealant.
6. Solvent wipe all surfaces and apply Tremco Silicone metal primer (TREMprime Silicone Metal Primer).
7. Apply sealant to surface and secure.
8. At all steel panels, detail all exterior joints and fastener penetrations with sealant.

HDPE Shim and Stainless Steel Spacers and Flashing

1. HDPE shims must be fabricated for isolating and shimming the aluminum diamond plate from the structural steel web.
2. Bushings for the steel railing posts are to be fabricated from HDPE to isolate the steel post base from the aluminum diamond plate deck. Note the diamond plate deck holes for the steel post base should be surveyed and a standard diameter hole cut for all. The HDPE bushing can then be fabricated in one size for all penetrations.
3. Stainless steel washers are to be used to create a uniform gap around the radius of the concrete and aluminum deck.
4. At the base of the lantern wall, stainless steel flashing must be fabricated and integrated with the steel panels and aluminum diamond plate deck.

Please review and let me know if you have any questions.

Best,

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Below are the names of the files that are referred to above:

Amerlock 2 VOC primer

Application of CIM to concrete

Application of CIM to steel/metal

Aquafin SG3

CIM 1000 TDS

CIM 1000-Bonding Agent TDS

CIM 1000-Trowel Grade

PPG Cleaning of Steel and Rust RemovalUS_1490

PPG PSX 700

Primer Selection Usage Guide

PSX 805

PSX-805-800-Brochure

psx700-ppg-industries-spec-sheet-tcm45-2207244

PSXMilSpecApproval

Spectrem_2_DS