



# Dampney Protective Coatings

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## **SUBJECT:** Topcoating Inorganic Zinc Primers

We are pleased to submit Dampney Coating System recommendations and procedures for topcoating inorganic zinc (IOZ) primers. The successful performance of an IOZ in high temperature service requires minimal thickness and the removal of salts, which form on the surface of the zinc during its curing cycle. The scope of the work described in this transmittal involves the surface preparation and cleaning procedures necessary to achieve this performance, as well as the recommendations and procedures for topcoat application.

The utilization of any proposed Dampney Coating System is predicated upon achieving satisfactory IOZ dry film thickness (DFT) that does not exceed 3 mils and the IOZ surfaces shall be free of zinc salts or other contaminants that may be on the surfaces of the stacks. The recommended surface preparation procedures are:

### **A. SURFACE PREPARATION**

- Any IOZ that has an original thickness that exceeds 8 mils DFT should be removed by abrasive blast cleaning and repainted per the IOZ manufacturer's requirements.
- Remove any existing IOZ thickness that exceeds 3 mils DFT by "screening" or similar acceptable procedure(s).
- Once the necessary screening is completed, any oil, grease or other contaminants on the IOZ surface should be removed by Solvent Cleaning per the requirements of SSPC-SP 1.
- High pressure water wash (using a minimum pressure of 3,000 psi and applied with a rotating nozzle) the entire zinc surface to remove zinc salts that form during the zinc curing process, as well as to remove any residual zinc powder that may have resulted from the zinc "screening" operations.
- Rinse using fresh water.
- Allow the surface to dry and then proceed to the coating operations.

We appreciate the opportunity to work with you. If you have any questions or require additional information, please call 1-800-537-7023.

Respectfully submitted,

Ray Posgay, P.E.  
Dampney Company, Inc.