

## Project Summary

- Zerust® was awarded a project encompassing the introduction of a corrosion inhibiting solution at the chime area of two tanks. The specified tanks sit on concrete pads.
- During initial construction of the tanks, sealant was used under the chime, on top of the concrete. This sealant was aged and cracked or missing.
- The pad foundations were cone down to a center sump under the tank floors. Rain water, condensation and other contaminants were entering under the chime through the cracks in the sealant and pooling in the sump and up the slope.
- Removal of the existing sealant and installation of an Inhibitor Delivery System (IDS) was completed, prior to the installation of Vapor Corrosion Inhibitor (VCI).

## Goals and Objectives

- Reduce the ingress of contaminants under the tank floor
- Install VCI to reduce the corrosion rate and extend the life of the tank floor

## Specifications

- Vessel Identification: Tank 1 and Tank 2
- Vessel Diameter: 30 feet

## Zerust Oil & Gas Materials

- 1" Perforated PVC Chime Ring with Sealant
- VCI in both a Slurry and Dry Sleeve format



TANK 1



TANK 2

## Procedures

- The chime was cleaned using brushes and rags to remove any dust or debris.
- A multi-step process to install the PVC Chime Ring with access risers and seal it to the chime and concrete surface.
- Gravity feed a small volume of VCI slurry under the tank to neutralize existing contaminants. Then install VCI Dry Sleeves into the Chime Ring for long term protection (see Zerust Tank IDS brochure for more details).

## Outcome

- Contaminants under the tank floor were either removed or neutralized. Corrosion rates are reduced and the life of the tank floor, from underside corrosion, is extended.

ABOVEGROUND STORAGE TANK | Tank SSB IDS – Chime Ring Dry | U.S.A. | MAY 2017

## Pictures of Preparation Work



1. Preparation of tank chime & concrete surfaces



2. Finished installation of Zerust IDS



3. Inhibitor slurry injection



4. Inhibitor sleeves installation

## Pictures of Finished Installation



Tank 1 (A)



Tank 1 (B)



Tank 1 (C)



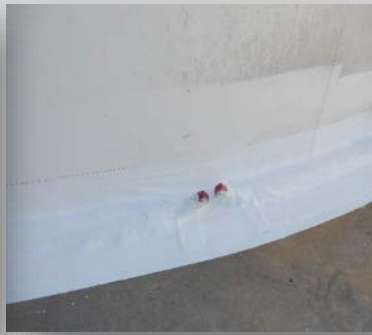
Tank 1 (D)



Tank 2 (A)



Tank 2 (B)



Tank 2 (C)



Tank 2 (D)