

Corrosion Protection for a Single Bottom Storage Tank on Bitsand Foundation via Chime Ring Dry IDS

Project Specifics

Installation Dates
December 14, 2020

Location
Oman

Environmental Conditions
Avg. Temp. ~82°F, Avg. Humidity ~68%, sunny and dry

Asset Details
Diameter: 92m
Vessel Construction: Single-Bottom with concrete ring wall and without a liner.
Foundation Media: Bitsand

Inhibitor Delivery System (IDS): Chime Ring Dry IDS
IDS Monitoring System: Corrosion Monitoring Coupons & ER Probes

Zerust Product(s) Used
Zerion® FVS Corrosion Inhibiting Powder

Project Specifics

The client wanted corrosion protection for an aboveground storage tank on bitsand foundation with a concrete ring wall and without an existing liner, ports or anchor bolt(s).

Tank Project Details

Chime Ring IDS PVC pipes were installed around the circumference of the targeted vessel and sealed in place with the noted sealant materials. Corrosion inhibitor sleeve assemblies were installed through the Chime Ring IDS pipe end segments and the segments were closed off with supplied nylon plugs. All corrosion inhibitor sleeves were installed with no issues. Corrosion inhibitor slurry (20 gallons of water mixed with 4 pails of Zerion FVS) was injected in to 4 ports around the vessel to give further coverage into the middle area of the tank. Corrosion monitoring coupons were installed at locations as shown in provided schematic.

