Zerust® Floating Roof Leg - Corrosion Protection

ZERUST® ROOF LEG SOCKS

The Problem

Roof legs are typically “raised” when the tank is in operation and “lowered” when the roof is set down on the ground for inspections. Roof legs are often in the “lowered” position for 10 years or more. During this time it is common for corrosion to build up between the roof leg and the sleeve attached to the roof deck and between the “pin” used to lock the leg in place and the sleeve and leg. If this is frozen with corrosion, then the leg cannot be moved. The corrosion buildup can cause the leg to seize in the sleeve and require considerable effort/cost to move the legs to the “low leg” position prior to tank turnaround.

The Solution

Zerust® has developed a treatment package consisting of Zerust's protective Roof Leg Sock, made from UV resistant VCI film, used in combination with Zerust's Axxanol Z-Maxx grease to cost effectively reduce corrosion rates in this area using Zerust's proven corrosion inhibitor products. Add on Zerust's AutoFog A Packets for clients requiring additional assurance in more aggressive environments.

Combination Solution of Zerust's Roof Leg Sock & Zerust’s Axxanol Z-Maxx Grease

For this method, a roof leg is raised and coated with Zerust Axxanol Z-Maxx grease. The leg is lowered back into position and the protective Roof Leg Sock is secured overtop of the leg that was removed from the sleeve. This process is repeated for all the remaining legs.

Zerust's Roof Leg Sock is made from UV resistant VCI film.

Zerust® Axxanol Z-Maxx grease provides extreme corrosion prevention for ferrous and non-ferrous metals.

Zerust® AutoFog A Packets

Zerust's AutoFog A is a revolutionary Flash Corrosion Inhibitor (FCI™) that diffuses rapidly to provide corrosion protection for bare metal surfaces. AutoFog A is ideally suited for the prevention of corrosion in large metal voids and enclosures. The unique rapid diffusing action allows corrosion inhibition of the enclosed space without the need for power sprays or mechanical fogging of powders.

For added protection against corrosion in more aggressive environments, add a packet of Zerust's AutoFog A to each roof leg after applying the Zerust Axxanol Z-Maxx grease and before placing the Roof Leg Sock overtop.
**Zerust® Roof Leg Solution Installation Steps**

**STEP 1**
Remove the pin and pull the leg up until the oil level is visible on the leg surface.

**STEP 2**
Apply a thick layer of the Z-Maxx over the entire leg assembly.

**STEP 3**
Install thicker portion of the grease where the leg is sliding inside the sleeve.

**STEP 4**
Lower the leg and re-install the pin.

**STEP 5**
Attach an AutoFog packet to the roof leg (optional).

**STEP 6**
Cover the roof leg with Zerust’s Roof Leg Sock.

**Zerust® Roof Leg Solution Installation Steps**

**Solution Results From Field Trial**

The benefits of Zerust’s Roof Leg Sock solution package are highlighted in a recent trial on a floating roof tank. Test coupons were attached to roof legs with zip ties. The coupons received one of two treatment options: bare (control, no treatment) and Z-Maxx coupon in combination with the VCI Roof Leg Sock. Sets of coupons, (one of each treatment method) were pulled periodically. Pictures of some of the coupons are shown below. The protected coupons, (Z-Maxx with Roof Leg Sock) are corrosion free even after 26 months of exposure, while corrosion is apparent on all the control coupons.

**2 Months**
- Control
- Z-Maxx with Roof Leg Sock

**8 Months**
- Control
- Z-Maxx with Roof Leg Sock

**26 Months**
- Control
- Z-Maxx with Roof Leg Sock

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