

Installation Reference - Membrane Electrode

Topic: All Stainless Steel Electrodes

Please read all the instructions listed below carefully to familiarize yourself with the project before attempting to perform any of the work.

Required Materials

- Cotton Gloves

Required Tools

- None

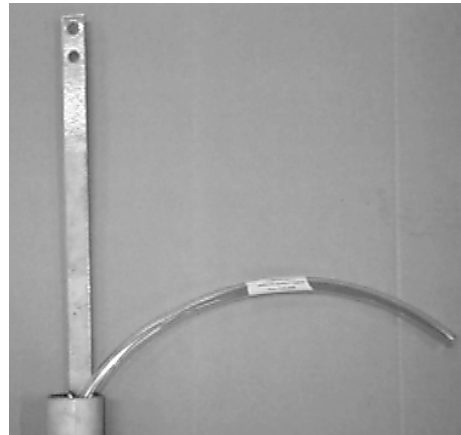
Stainless Steel Electrodes are the most common type of Electrode. In cathodic ED paint systems, they are sacrificial and will wear away over a period of time. If the anolyte is contaminated the Electrodes can corrode in as little as 2 or 3 months. Generally the anolyte color will be very dark (like coffee), and there will be an increase in the pH of the anolyte to as much as 3.5 to 4.5 pH.

Instructions

1. Disconnect the electrical cable and the electrolyte supply line.

Open Top ME Cells

2. Remove the old Electrode by pulling straight up.
3. Install the new Electrode into the Membrane Shell. **Do not drop the Electrode into the Membrane Shell. Damage to the cap can occur.** Gently twist the Electrode by grasping the Electrode Tab, to help it seat itself into the bottom of the cap.
4. Generally the Tab of the Electrode will extend about 20 mm (3/4") out of the top of the Membrane Shell. Check your ME Cell drawing to confirm the dimension.



Low Profile Cell

5. Mark the center of the ME Cell before you remove the original. Loosen the two clamps and remove the ME Cell.
6. See Bulletin # 990133 for disassembly instructions. Replace the old Membrane Shell with the new one. Re-assemble the ME Cell.

Conclusion

7. Reattach both the electric cable and the electrolyte supply line.

For more information see the original manual that came with the equipment or call UFS (219) 464-2027 ext. 24.

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(P/N 993128)*

Think and act in a safe manner. Always disconnect power and use a lockout before you work on the E-coat system, or any of the related subsystems. Observe any confined space conditions. Use the appropriate safety equipment and clothing for the task.

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