

# E-Coat Element Installation Procedure

1. Remove the flow meter/assembly from the housing top cap. Store in a safe place to prevent damage.
2. Remove the Victaulic coupling from the top cap.
3. Lift the top cap off the housing. In most cases, the element will lift up with the top cap. If it does not, pull the spent element out by the permeate tub extension, ATD, or by removing the housing and bottom cap to push the element out.
4. Carefully remove the element from its storage bag. For elements with rubber seals, ensure they are properly installed by lubricating with glycerine.
5. Replace the O-ring on your top cap with the new O-ring supplied with your element and lubricate them with glycerine. A vial of glycerine is included with each shipment.
6. Eliminate the residual paint from the housing. Fill the housing approximately 1/3 full with DI/RO water.
7. Insert the bottom plug into the end of the element without the rubber seal(s). For elements with no rubber seal, insert bottom plug into any end.
8. Insert the element into the housing, bottom end plug first. Do not force the element. For elements with tape wrap, you may trim the tape until it has a snug fit.
9. Gently push the element to make sure the element is seated on the bottom of the housing. Ensure the permeate tube is completely submerged in DI/RO water.
10. Carefully insert the top cap connector into the permeate tube. Replace the top cap and tighten the bolts. Reinstall the flow meter/bypass assembly and tighten the union connections.
11. Circulate DI/RO water through the element for 15 minutes in the CIP loop. Purge to drain, and then refill with fresh DI/RO water. If this is not possible, soak the element in DI/RO water for at least one hour, purge to drain, and re-fill the housing with fresh DI/RO water.
12. Open both the paint permeate to rinse valve and the paint return valve.
13. Start paint feed pump and slowly open paint feed valve (to fully open in 3-5minutes). Adjust the inlet pressure to a minimum of 50 PSI.  
  
**Warning:** When operating on paint or cleaning, the appropriate permeate transport valve must be 100% open. When operating on paint, the "Permeate to Rinse" valve must be 100% open. When cleaning, the "Permeate to CIP tank" valve must be 100% open. Throttling or closing any permeate valve while the element is in operation can result in "leakers" and "smokers" and will void our warranty.
14. Adjust the pressures until the system balances out and the pressure/flow rates stabilize.