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Installation Reference

Topic: First Use of Older Stock TECTRON Membrane Shells with: PTAN, PTCA, PTLAN, and PTLCA Membranes

Please read carefully before performing work or unpacking any further

Required Materials

- 20 l (5 gal) bucket & DI water

Required Tools

- Graduated cylinder & timer

Ion exchange membrane is made from combining ion exchange resin and an appropriate binder. Generally age does not degrade the performance of the membrane. Age does, however, result in a loss of moisture in the membrane. These instructions are meant to assist customers with the installation of Membrane Shells that have been in stock for more than 2 years.

If a Membrane Shell is being installed in an ED tank with the ED paint bath in the tank, then as with all Membrane Shells, fill the Shell with DI water in order to protect the Shell from possible damage. If the Shell is not first filled with DI water, then the buoyancy forces and circulation forces in the ED bath could damage the Shell. In most cases, after the membrane has been fully re-hydrated, it will not allow paint to pass.

1. Remove the Membrane Shell from the packaging and place into the bucket.
2. Fill the Shell with DI water. Wait for 5 minutes and refill the Shell to the overflow Nozzle.
3. Repeat Step 2 as required until about 30 minutes after the Shell was first filled with DI water.
4. Empty the bucket. Top off the Shell with more DI water. Empty the contents in the bucket every 15 minutes. Record the loss fluid in the table below.

Elapsed time	Loss (ml)
15 minutes	_____
30 minutes	_____
45 minutes	_____
60 minutes	_____
total loss (ml)	_____

5. If the total lost fluid is grater than 200 ml, then search for a possible leak and call UFS Corporation for further assistance.
6. If the loss is less than 200 ml, then the Shell is suitable for installation and service in the ED tank. See Bulletin #993127.
7. If you are unable to completely re-hydrate the Shell before installation, then flush the electrolyte system before the ED system is operated because some paint may of passed through the older Shell until all the micro cracks closed shut. See Bulletin 990103.

For more information see the original manual that came with the equipment

or else call UFS at the phone number shown above.