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Service Reference

Topic: Mid to Long-term Storage of TECTRON™ Membrane Shells

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

Required Materials

- D.I. Water
- Poly Sleeves (PN Z140xxx, call UFSc)
- Electrical Tape

Required Tools

- None

For Membrane Shells not yet installed in an E-coat tank.
Leave the Membrane Shells in their original packaging material and shipping crate. Store in a dry warehouse. Do not place any other boxes, crates, etc. on top of the shipping crate. Keep the crate dry and cool. Do not allow the Membrane Shells to get wet.

For Membrane Shells already installed in an idle E-coat tank that is filled with E-coat paint.
Leave the Membrane Shells in place and do not attempt to remove them from the tank. Check the liquid level inside the Cells every other day (more often if required), and replace D.I. water as necessary. Make sure the electrolyte flow is maintained during the idle period. Do not let the Membrane Shells dry out. If the e-coat paint is drained from the tank, follow the steps outlined below.

For Membrane Shells to be removed from service or those in an idle E-coat tank that is scheduled to be drained.

1. As the e-coat tank paint level is lowered or if the Cell is removed from the E-coat bath – rinse off the exterior of the Membrane Shell(s) with a D.I. water hose to remove E-coat paint solids.
2. Remove the Electrode, drain out any trapped electrolyte fluid, rinse off with D.I. water and store in a clean environment.
3. Use more D.I water to rinse out the interior of the Membrane Shell and immediately place it into a poly sleeve to keep the Membrane Shell moist.
4. If supplied by UFSc, the poly sleeves will be of the proper length and factory-sealed on one end. If not supplied by UFSc, the poly sleeve should be at least 100 micron (4 mils) thick, about 20 cm (~8 in) wide when flat, and cut to lengths about 1 meter (~36 in) longer than the overall length of the Membrane Shell.
5. If available, a small "poly sleeve" heat sealer can be used to seal the open end. If a heat sealer is not available, then fold back the open end of the poly sleeve and use tape or a plastic tie wrap to seal the ends of the poly sleeve. (Do not use a stapler, as the metal staples can damage the Membrane Shell.) For an extra amount of protection, repeat this process so that the Membrane Shell is sealed inside **two layers of poly sleeve.**
6. Store the Membrane Shell in the original crate, if possible, or upright in a corner on a piece of cardboard in order to protect it from damage. **Do not let the Membrane Shell dry out or let the poly sleeve be cut, which can dry out the Membrane Shell.**

For more information see the original manual that came with the equipment or call UFSc at the phone number shown above.

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 & clothing for the task.